

## **Guidelines for Green Procurement**

**Attached Table : Details of substances (typical examples)**

## Revision history

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| 2012-11-20 | Guidelines for Green Procurement (Attached Table) First edition issue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 2012-12-28 | Guidelines for Green Procurement (Attached Table) Second edition issue<br>B20 Addition of Substance of REACH SVHC in Candidate List (84 substance -> 138substance)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 2013- 6-21 | Guidelines for Green Procurement (Attached Table) Third edition issue<br>B20 Addition of Substance of REACH SVHC in Candidate List (138 substance -> 144substance)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 2013-12-26 | Guidelines for Green Procurement (Attached Table) Fourth edition issue<br>B20 Addition of Substance of REACH SVHC in Candidate List (144 substance -> 151substance)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 2014- 6-20 | Guidelines for Green Procurement (Attached Table) Fifth edition issue<br>B20 Addition of Substance of REACH SVHC in Candidate List (151 substance -> 155substance)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 2014-10-01 | Guidelines for Green Procurement Ver.10 (Attached Table) Sixth edition issue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2014-12-26 | Guidelines for Green Procurement (Attached Table) Seventh edition issue<br>TB20 Addition of Substance of REACH SVHC in Candidate List (155 substance -> 161 substance)<br>TB23 Addition of 10 Substances for Polycyclic Aromatic Hydrocarbon (PAH)<br>A change part is written by blue character                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2015- 6-22 | Guidelines for Green Procurement (Attached Table) Eighth edition issue<br>TA20 Addition of Red Phosphorus<br>TB20 Addition of Substance of REACH SVHC in Candidate List (161 substance -> 163 substance)<br>TB24 Addition of PFCAs (15 substance)                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2015-12-25 | Guidelines for Green Procurement Ver.10 .3(Attached Table) 10.3.0 edition issue<br>TA18 Added the CAS No. of Red Phosphorus<br>TB9 Addition of 5 Substances for Some Phthalic Esters<br>TB20 Addition of Substance of REACH SVHC in Candidate List (163 substance ->168 substance)<br>TB25 Addition of Benzidine and its salts<br>TB26 Addition of Biphenyl-4-ylamine and its salts<br>TB27 Addition of 2-naphthylamine ( $\beta$ -Naphthylamine) and its salts<br>TB28 Addition of Organic phosphorus compounds<br>(limited to Parathion, Methyl Parathion, Methyl Demeton and EPN)<br>TB29 Addition of 2-Chloronaphthalenes<br>TB30 Addition of Pentachlorophenol and its salts and its esters |
| 2016- 6-24 | Guidelines for Green Procurement Ver.10 .4(Attached Table) 10.4.0 edition issue<br>TB20 Addition of Substance of REACH SVHC in Candidate List (168 substance ->169 substance)<br>TB31 Addition of Simazine<br>TB32 Addition of Bisphenol A (limited to thermal paper containing over than 0.02wt% )                                                                                                                                                                                                                                                                                                                                                                                              |
| 2017-1-20  | Guidelines for Green Procurement Ver.10 .5(Attached Table) 10.5.0 edition issue<br>TB20 Addition of Substance of REACH SVHC in Candidate List (169 substance ->173 substance)<br>TB22 (will be deleted)<br>TB33 Addition of Small Brominated Alkyl Alcohols<br>TB34 Addition of Dechlorane A<br>TB35 Addition of Tris(2-chloro-1-methylethyl) Phosphate<br>TB36 Addition of IEC62474 Declarable substances                                                                                                                                                                                                                                                                                       |
| 2017-7-14  | Guidelines for Green Procurement Ver.11 .0(Attached Table) 11.0.0 edition issue<br>TA53 Addition of Perfluorooctanoic acid (PFOA)<br>TB20 Addition of Substance of REACH SVHC in Candidate List (173 substance ->174 substance)<br>TB22 (deleted)<br>TB24 Deleted Perfluorooctanoic acid (PFOA) from the typical examples of PFCAs                                                                                                                                                                                                                                                                                                                                                               |
| 2018-1-22  | Guidelines for Green Procurement Ver.11 .1 (Attached Table) 11.1.0 edition issue<br>TA53 Addition of typical examples for Perfluorooctanoic acid (PFOA)<br>TB20 Addition of Substance of REACH SVHC in Candidate List (174 substance ->181 substance)<br>TB37 Addition of China Prioritized chemical inventory substances (22 substance)                                                                                                                                                                                                                                                                                                                                                         |
| 2018-7-4   | Guidelines for Green Procurement Ver.11 .2(Attached Table) 11.2.0 edition issue<br>TA9 Addition of typical examples for Polychlorinatedbiphenyls (PCBs)/ Polychlorinated terphenyls (PCTs)<br>TB20 Addition of Substance of REACH SVHC in Candidate List (181substance ->191 substance)                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2019-1-31  | Guidelines for Green Procurement Ver.11 .3(Attached Table) 11.3.0 edition issue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

- TB20 Addition of Substance of REACH SVHC in Candidate List (191 substance ->197 substance)  
TB38 Addition of PFHxS and its salts and its related compounds (147 substance)
- 2019-7-26 Guidelines for Green Procurement Ver.11 .4(Attached Table) 11.4.0 edition issue  
TA10 Change (with 3 or more chlorine atoms) to (with 1 or more chlorine atoms) and added typical examples  
TA53 Addition of “its salts and PFOA related substances” and added typical examples  
TB20 Addition of Substance of REACH SVHC in Candidate List (197 substance ->201 substance)  
TB29 (deleted)  
TB38 Corrected from PFHxS to PFHxS  
TB39 Addition of Bisphenol S (limited to thermal paper containing over than 0.02wt% )
- 2020 -3-12 Guidelines for Green Procurement Ver.11 .5(Attached Table) 11.5.0 edition issue  
TB20 Addition of Substance of REACH SVHC in Candidate List (201 substance ->205 substance)
- 2020-7-17 Guidelines for Green Procurement Ver.11 .6(Attached Table) 11.6.0 edition issue  
TB12 Change Chlorinated paraffins to Long Chain Chlorinated paraffins(C18-30)  
TB20 Addition of Substance of REACH SVHC in Candidate List (205 substance ->209 substance)  
TB40 Medium Chain Chlorinated paraffins (C14-17) separated from TB12 Chlorinated paraffins and added  
TB41 Addition of (“Dechlorane Plus”™)
- 2021-3-1 Guidelines for Green Procurement Ver.12.0 (Attached Table) 12.0.0 edition issue  
TA16, 17, 19-32, 38-42, 44-47 deleted due to IEC62474 compliance  
TA18 Removed Red Phosphorus prohibition condition  
TB20 Addition of Substance of REACH SVHC in Candidate List (209 substance ->211 substance)  
TB37 Addition of China Prioritized chemical inventory substances (2nd list)  
TB42 Addition of PBT 5 substances based on TSCA Article 6 (h)
- 2021-6-1 Guidelines for Green Procurement Ver.12.1 (Attached Table) 12.1.0 edition issue  
TA54 Addition of Phenol, Isopropylated Phosphate (3:1) (PIP 3:1)  
TA55 Addition of Pentachlorothiophenol (PCTP)  
TB42 Change PBT substances based on TSCA Article 6 (h)
- 2021-9-1 Guidelines for Green Procurement Ver.12.2 (Attached Table) 12.2.0 edition issue  
TB20 Addition of Substance of REACH SVHC in Candidate List (211 substance ->219 substance)

**Substance that is prohibited in the delivered product (typical examples)**

| No. | CAS        | Chemical substance name                                                                                                      | Chemical formula                                                                                 |
|-----|------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| TA1 |            | <b>Lead and its compounds</b>                                                                                                |                                                                                                  |
|     | 7439-92-1  | Lead                                                                                                                         | Pb                                                                                               |
|     | 598-63-0   | Lead(II) carbonate                                                                                                           | PbCO <sub>3</sub>                                                                                |
|     | 1309-60-0  | Lead(IV) oxide                                                                                                               | PbO <sub>2</sub>                                                                                 |
|     | 1314-41-6  | Lead(II,IV) oxide                                                                                                            | Pb <sub>3</sub> O <sub>4</sub>                                                                   |
|     | 1314-87-0  | Lead(II) sulfide                                                                                                             | PbS                                                                                              |
|     | 1317-36-8  | Lead(II) oxide                                                                                                               | PbO                                                                                              |
|     | 1319-46-6  | Lead(II) carbonate basic                                                                                                     | 2PbCO <sub>3</sub> ·Pb(OH) <sub>2</sub>                                                          |
|     | 1344-36-1  | Lead Hydroxidcarbonate                                                                                                       | 2PbCO <sub>3</sub> ·Pb(OH) <sub>2</sub>                                                          |
|     | 7446-14-2  | Lead(II) sulfate                                                                                                             | PbSO <sub>4</sub>                                                                                |
|     | 7446-27-7  | Lead(II) phosphate                                                                                                           | Pb <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>                                                  |
|     | 7758-97-6  | Lead(II) chromate                                                                                                            | PbCrO <sub>4</sub>                                                                               |
|     | 12060-00-3 | Lead(II) titanate                                                                                                            | PbTiO <sub>3</sub>                                                                               |
|     | 15739-80-7 | Lead sulfate,sulphuric acid,lead salts                                                                                       | PbSO <sub>4</sub>                                                                                |
|     | 12202-17-4 | Lead sulfate,tribasic                                                                                                        | PbSO <sub>4</sub> ·H <sub>2</sub> O                                                              |
|     | 1072-35-1  | Lead stearate                                                                                                                | Pb(C <sub>17</sub> H <sub>35</sub> COO) <sub>2</sub>                                             |
|     | 56189-09-4 | Lead stearate,dibasic                                                                                                        | 2PbO·Pb(C <sub>17</sub> H <sub>35</sub> COO) <sub>2</sub>                                        |
|     | 12656-85-8 | Lead chromate molybdate sulfate red (C.I. Pigment Red 104)                                                                   | PbCrO <sub>4</sub> , PbMoO <sub>4</sub> , PbSO <sub>4</sub>                                      |
|     | 1344-37-2  | Lead sulfochromate yellow (C.I. Pigment Yellow 34)                                                                           | Pb(Cr,S)O <sub>4</sub>                                                                           |
|     | -          | Other lead compounds                                                                                                         | -                                                                                                |
| TA2 |            | <b>Mercury and its compounds.</b>                                                                                            |                                                                                                  |
|     | 7439-97-6  | Mercury                                                                                                                      | Hg                                                                                               |
|     | 7487-94-7  | Mercury(II) chloride                                                                                                         | HgCl <sub>2</sub>                                                                                |
|     | 21908-53-2 | Mercury(II) oxide                                                                                                            | HgO                                                                                              |
|     | -          | Other mercury compounds                                                                                                      | -                                                                                                |
| TA3 |            | <b>Hexavalent chromium compounds</b>                                                                                         |                                                                                                  |
|     | 7789-12-0  | Sodium dichromate                                                                                                            | Na <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>                                                   |
|     | 10588-01-9 |                                                                                                                              |                                                                                                  |
|     | 1333-82-0  | Chromium(VI) oxide                                                                                                           | CrO <sub>3</sub>                                                                                 |
|     | 13765-19-0 | Calcium chromate                                                                                                             | CaCrO <sub>4</sub>                                                                               |
|     | 7758-97-6  | Lead (II) chromate                                                                                                           | PbCrO <sub>4</sub>                                                                               |
|     | 7778-50-9  | Potassium dichromate                                                                                                         | K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>                                                    |
|     | 7789-00-6  | Potassium chromate                                                                                                           | K <sub>2</sub> CrO <sub>4</sub>                                                                  |
|     | -          | Other hexavalent chromium compounds                                                                                          |                                                                                                  |
| TA4 |            | <b>Cadmium and its compounds</b>                                                                                             |                                                                                                  |
|     | 7440-43-9  | Cadmium                                                                                                                      | Cd                                                                                               |
|     | 1306-19-0  | Cadmium oxide                                                                                                                | CdO                                                                                              |
|     | 1306-23-6  | Cadmium sulfide                                                                                                              | CdS                                                                                              |
|     | 10108-64-2 | Cadmium chloride                                                                                                             | CdCl <sub>2</sub>                                                                                |
|     | 10124-36-4 | Cadmium sulfate                                                                                                              | CdSO <sub>4</sub>                                                                                |
|     | -          | Other cadmium compounds                                                                                                      | -                                                                                                |
| TA5 |            | <b>Polybrominated biphenyls (PBBs)</b>                                                                                       |                                                                                                  |
|     | 59536-65-1 | Polybrominated biphenyls                                                                                                     | C <sub>12</sub> H <sub>x</sub> Br <sub>(10-x)</sub>                                              |
|     | -          | Other polybrominated biphenyls                                                                                               | -                                                                                                |
| TA6 |            | <b>Polybrominated diphenyl ethers (PBDEs)</b>                                                                                |                                                                                                  |
|     | 1163-19-5  | Polybrominated diphenyl ethers                                                                                               | C <sub>12</sub> H <sub>x</sub> Br <sub>(10-x)</sub> O                                            |
|     | -          | Other Polybrominated diphenyl ethers                                                                                         | -                                                                                                |
| TA7 |            | <b>Bis(tributyltin)oxide</b>                                                                                                 |                                                                                                  |
|     | 56-35-9    | Bis(Tri-n-butyltin)oxide                                                                                                     | O(Sn(C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> ) <sub>2</sub>                                 |
| TA8 |            | <b>Tri-substituted organostannic compounds (Tributyltins (TBTs) , Tripheniltins (TPTs) , etc .,except TBTO(Ref. No.TA7))</b> |                                                                                                  |
|     | 1803-12-9  | Triphenyltin N,N'-dimethyldithiocarbamate                                                                                    | (C <sub>6</sub> H <sub>5</sub> ) <sub>3</sub> Sn(CH <sub>3</sub> ) <sub>2</sub> NCS <sub>2</sub> |

|      |            |                                                                                                                             |                                             |
|------|------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
|      | 379-52-2   | Triphenyltin fuloride                                                                                                       | $(C_6H_5)_3SnF$                             |
|      | 900-95-8   | Triphenyltin acetate                                                                                                        | $(C_6H_5)_3SnOCOCH_3$                       |
|      | 639-58-7   | Triphenyltin chloride                                                                                                       | $(C_6H_5)_3SnCl$                            |
|      | 76-87-9    | Triphenyltin hydroxide                                                                                                      | $(C_6H_5)_3SnOH$                            |
|      | 47672-31-1 | Triphenyltin fatty acid salts(C=9-11)                                                                                       | -                                           |
|      | 7094-94-2  | Triphenyltin chloroacetate                                                                                                  | $(C_6H_5)_3SnOCOCH_2Cl$                     |
|      | 2155-70-6  | Triphenyltin methacrylate                                                                                                   | $(C_4H_9)_3SnC_4H_5O_2$                     |
|      | 6454-35-9  | Bis(tributyltin)2,3-dibromosuccinate                                                                                        | $C_2H_2(COO)_2((C_4H_9)_3Sn)_2$             |
|      | 1983-10-4  | Tributyltin fluoride                                                                                                        | $(C_4H_9)_3SnF$                             |
|      | 31732-71-5 | Bis(tributyltin) 2,3-dibromosuccinate                                                                                       | $((C_4H_9)_3Sn)_2$<br>$C_2H_2(Br)_2(COO)_2$ |
|      | 56-36-0    | Tributyltin acetate                                                                                                         | $(C_4H_9)_3SnOCOCH_3$                       |
|      | 3090-36-6  | Tributyltin laurate                                                                                                         | $(C_4H_9)_3SnC_{12}H_{23}O_2$               |
|      | 4782-29-0  | Bis(tributyltin)phthalate                                                                                                   | $(C_6H_4)(COO)_2((C_4H_9)_3Sn)_2$           |
|      | -          | Copolymer of alkyl acrylate,methyl methacrylate and tributyltin methacrylate (alkyl;C=8)                                    | -                                           |
|      | 6517-25-5  | Tributyltin sulfamate                                                                                                       | $(C_4H_9)_3SnSO_3NH_2$                      |
|      | 14275-57-1 | Bis(tributyltin)maleate                                                                                                     | $C_2H_2(COO)_2((C_4H_9)_3Sn)_2$             |
|      | 1461-22-9  | tributyltin chloride                                                                                                        | $(C_4H_9)_3SnCl$                            |
|      | -          | Mixture of tributyltin cyclopentane carboxylate and its analogs                                                             | -                                           |
|      | -          | Mixture of tributyltin-1,2,3,4,4,a,5,6,10,10a-decahydro-7-isopropyl-1,4a-dimethyl-1-phenanthren carboxylate and its analogs | -                                           |
|      | -          | Other tri-substituted organostannic compounds                                                                               | -                                           |
| TA9  |            | <b>Polychlorinatedbiphenyls (PCBs)/ Polychlorinated terphenyls (PCTs)</b>                                                   |                                             |
|      | 1336-36-3  | PCB(Polychlorinated biphenyls)                                                                                              | $C_{12}H_nCl_{(10-n)}$ (n: 0-9)             |
|      | 61788-33-8 | PCT(Polychlorinated terphenyls)                                                                                             | $C_{18}H_nCl_{(14-n)}$ (n: 0-13)-           |
|      | 76253-60-6 | Monomethyl-tetrachloro-diphenyl methane (Ugilec 141)                                                                        | $C_{14}H_{10}Cl_4$                          |
|      | 81161-70-8 | Monomethyl-dichloro-diphenyl methane(Ugilec 121, Ugilec 21)                                                                 | -                                           |
|      | 99688-47-8 | Monomethyl-dibromo-diphenyl methane (DBBT)                                                                                  | -                                           |
| TA10 | -          | Other PCBs                                                                                                                  | -                                           |
|      |            | <b>Polychlorinated naphthalene(with1 or more chlorine atoms)</b>                                                            |                                             |
|      | 25586-43-0 | chloronaphthalene                                                                                                           | $C_{10}H_7Cl$                               |
|      | 28699-88-9 | dichloronaphthalene                                                                                                         | $C_{10}H_6Cl_2$                             |
|      | 1321-65-9  | trichloronaphthalene                                                                                                        | $C_{10}H_5Cl_3$                             |
|      | 1335-88-2  | tetrachloronaphthalene                                                                                                      | $C_{10}H_4Cl_4$                             |
|      | 1321-64-8  | pentachloronaphthalene                                                                                                      | $C_{10}H_3Cl_5$                             |
|      | 2234-13-1  | octachloronaphthalene                                                                                                       | $C_{10}Cl_8$                                |
|      | 91-58-7    | Polychlorinated naphthalene(with2 chlorine atoms)                                                                           | -                                           |
| TA11 | 70776-03-3 | Polychlorinated naphthalene(with3 or more chlorine atoms)                                                                   | -                                           |
|      | -          | Other Polychlorinated naphthalene                                                                                           | -                                           |
| TA11 |            | <b>Short chain chlorinated paraffins</b>                                                                                    |                                             |
|      | 85535-84-8 | Short chain chlorinated paraffins(C10-13)                                                                                   | $C_nH_{2n+2-x}Cl_x$ (n:10-13)               |
| TA12 |            | <b>Asbestos</b>                                                                                                             |                                             |
|      | 77536-66-4 | Actinolite                                                                                                                  | $Ca_2(Mg,Fe)_5(Si_8O_{22})(OH)_2$           |
|      | 12172-73-5 | Amosite                                                                                                                     | $Fe_5Mg_2(Si_8O_{22})(OH)_2$                |
|      | 77536-67-5 | Anthophyllite                                                                                                               | $(Mg, Fe)_7Si_8O_{22}(OH)_2$                |
|      | 12001-29-5 | Chrysotile                                                                                                                  | $Mg_3(Si_2O_5)(OH)_4$                       |
|      | 12001-28-4 | Crocidolite                                                                                                                 | $Na_2Fe^{2+}_3Fe^{3+}_2Si_8O_{22}(OH)_2$    |
|      | 77536-68-6 | Tremolite                                                                                                                   | $Ca_2Mg_5Si_8O_{22}(OH)_2$                  |
|      | -          | Other asbestos                                                                                                              | -                                           |
| TA13 |            | <b>Azo pigments and dyes.(those able to form certain amines)</b>                                                            |                                             |
|      | 60-09-3    | 4-Aminoazobenzene                                                                                                           | $C_{12}H_{11}N_3$                           |
|      | 90-04-0    | o-Anisidine                                                                                                                 | $C_7H_9NO$                                  |

|      |           |                                           |                                                                |
|------|-----------|-------------------------------------------|----------------------------------------------------------------|
|      | 91-59-8   | 2-Naphthylamine ( $\beta$ -Naphthylamine) | C <sub>10</sub> H <sub>9</sub> N                               |
|      | 91-94-1   | 3,3'-Dichlorobenzidine                    | C <sub>12</sub> H <sub>10</sub> Cl <sub>2</sub> N <sub>2</sub> |
|      | 92-67-1   | 4-Biphenylamine                           | C <sub>12</sub> H <sub>11</sub> N                              |
|      | 92-87-5   | Benzidine                                 | C <sub>12</sub> H <sub>12</sub> N <sub>2</sub>                 |
|      | 95-53-4   | <i>o</i> -Toluidine                       | C <sub>7</sub> H <sub>9</sub> N                                |
|      | 95-69-2   | 4-Chloro- <i>o</i> -toluidine             | C <sub>7</sub> H <sub>8</sub> ClN                              |
|      | 95-80-7   | 2,4-Toluendiamine                         | C <sub>7</sub> H <sub>10</sub> N <sub>2</sub>                  |
|      | 97-56-3   | <i>o</i> -Aminoazotoluene                 | C <sub>14</sub> H <sub>15</sub> N <sub>3</sub>                 |
|      | 99-55-8   | 5-Nitro- <i>o</i> -toluidine              | C <sub>7</sub> H <sub>8</sub> N <sub>2</sub> O <sub>2</sub>    |
|      | 101-14-4  | 3,3'-Dichloro-4,4'-diaminodiphenylmethane | C <sub>13</sub> H <sub>12</sub> Cl <sub>2</sub> N <sub>2</sub> |
|      | 101-77-9  | 4,4'-Methylenedianiline                   | C <sub>13</sub> H <sub>14</sub> N <sub>2</sub>                 |
|      | 101-80-4  | 4,4'-Diaminodiphenylether                 | C <sub>12</sub> H <sub>12</sub> N <sub>2</sub> O               |
|      | 106-47-8  | p-Chloroaniline                           | C <sub>6</sub> H <sub>6</sub> ClN                              |
|      | 119-90-4  | 3,3'-Dimethoxybenzidine                   | C <sub>14</sub> H <sub>16</sub> N <sub>2</sub> O <sub>2</sub>  |
|      | 119-93-7  | 3,3'-Dimethylbenzidine                    | C <sub>14</sub> H <sub>16</sub> N <sub>2</sub>                 |
|      | 120-71-8  | 2-Methoxy-5-methylaniline                 | C <sub>8</sub> H <sub>11</sub> NO                              |
|      | 137-17-7  | 2,4,5-Trimethylaniline                    | C <sub>9</sub> H <sub>13</sub> N                               |
|      | 139-65-1  | 4,4'-Thiodianiline                        | C <sub>12</sub> H <sub>12</sub> N <sub>2</sub> S               |
|      | 615-05-4  | 4-Methoxy-m-phenylenediamine              | C <sub>7</sub> H <sub>10</sub> N <sub>2</sub> O                |
|      | 838-88-0  | 4,4'-Diamino-3,3'-dimethyldiphenylmethane | C <sub>15</sub> H <sub>18</sub> N <sub>2</sub>                 |
| TA14 |           | <b>Ozone Depleting Substances</b>         |                                                                |
|      | 75-69-4   | CFC-11                                    | CFCl <sub>3</sub>                                              |
|      | 75-71-8   | CFC-12                                    | CF <sub>2</sub> Cl <sub>2</sub>                                |
|      | 76-13-1   | CFC-113                                   | C <sub>2</sub> F <sub>3</sub> Cl <sub>3</sub>                  |
|      | 76-14-2   | CFC-114                                   | C <sub>2</sub> F <sub>4</sub> Cl <sub>2</sub>                  |
|      | 76-15-3   | CFC-115                                   | C <sub>2</sub> F <sub>5</sub> Cl                               |
|      | 353-59-3  | Halon1211                                 | CF <sub>2</sub> BrCl                                           |
|      | 75-63-8   | Halon1301                                 | CF <sub>3</sub> Br                                             |
|      | 124-73-2  | Halon2402                                 | C <sub>2</sub> F <sub>4</sub> Br <sub>2</sub>                  |
|      | 75-72-9   | CFC-13                                    | CF <sub>3</sub> Cl                                             |
|      | 354-56-3  | CFC-111                                   | C <sub>2</sub> FCl <sub>5</sub>                                |
|      | 76-12-0   | CFC-112                                   | C <sub>2</sub> F <sub>2</sub> Cl <sub>4</sub>                  |
|      | 422-78-6  | CFC-211                                   | C <sub>3</sub> FCl <sub>7</sub>                                |
|      | 3182-26-1 | CFC-212                                   | C <sub>3</sub> F <sub>2</sub> Cl <sub>6</sub>                  |
|      | 2354-06-5 | CFC-213                                   | C <sub>3</sub> F <sub>3</sub> Cl <sub>5</sub>                  |
|      | 2268-46-4 | CFC-214                                   | C <sub>3</sub> F <sub>4</sub> Cl <sub>4</sub>                  |
|      | 76-17-5   | CFC-215                                   | C <sub>3</sub> F <sub>5</sub> Cl <sub>3</sub>                  |
|      | 661-97-2  | CFC-216                                   | C <sub>3</sub> F <sub>6</sub> Cl <sub>2</sub>                  |
|      | 422-86-6  | CFC-217                                   | C <sub>3</sub> F <sub>7</sub> Cl                               |
|      | 56-23-5   | Carbon tetrachloride                      | CCl <sub>4</sub>                                               |
|      | 71-55-6   | 1,1,1-Trichloroethane                     | C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub>                  |
|      | 1868-53-7 | Dibromofluoromethane                      | CHFBr <sub>2</sub>                                             |
|      | 1511-62-2 | Bromodifluoromethane                      | CHF <sub>2</sub> Br                                            |
|      | 373-52-4  | Bromofluoromethane                        | CH <sub>2</sub> FBr                                            |
|      | 306-80-9  | Tetrabromofluoroethane                    | C <sub>2</sub> HFBr <sub>4</sub>                               |
|      | -         | Tribromodifluoroethane                    | C <sub>2</sub> HF <sub>2</sub> Br <sub>3</sub>                 |
|      | 354-04-1  | Dibromotrifluoroethane                    | C <sub>2</sub> HF <sub>3</sub> Br <sub>2</sub>                 |
|      | 124-72-1  | Bromotetrafluoroethane                    | C <sub>2</sub> HF <sub>4</sub> Br                              |
|      | -         | Tribromofluoroethane                      | C <sub>2</sub> H <sub>2</sub> FBr <sub>3</sub>                 |
|      | 75-82-1   | Dibromodifluoroethane                     | C <sub>2</sub> H <sub>2</sub> F <sub>2</sub> Br <sub>2</sub>   |
|      | 421-06-7  | Bromotrifluoroethane                      | C <sub>2</sub> H <sub>2</sub> F <sub>3</sub> Br <sub>3</sub>   |
|      | 358-97-4  | Dibromofluoroethane                       | C <sub>2</sub> H <sub>3</sub> FBr <sub>2</sub>                 |
|      | 359-07-9  | Bromodifluoroethane                       | C <sub>2</sub> H <sub>3</sub> F <sub>2</sub> Br                |
|      | 762-49-2  | Bromofluoroethane                         | C <sub>2</sub> H <sub>4</sub> FBr                              |
|      | -         | Hexabromofluoropropane                    | C <sub>3</sub> HFBBr <sub>6</sub>                              |
|      | -         | Pentabromodifluoropropane                 | C <sub>3</sub> HF <sub>2</sub> Br <sub>5</sub>                 |
|      | -         | Tetrabromotrifluoropropane                | C <sub>3</sub> HF <sub>3</sub> Br <sub>4</sub>                 |

|             |                            |                   |
|-------------|----------------------------|-------------------|
| -           | Tribromotetrafluoropropane | $C_3HF_4Br_3$     |
| 431-78-7    | Dibromopentafluoropropane  | $C_3HF_5Br_2$     |
| 2252-79-1   | Bromohexafluoropropane     | $C_3HF_6Br$       |
| -           | Pentabromofluoropropane    | $C_3H_2FBr_5$     |
| -           | Tetrabromodifluoropropane  | $C_3H_2F_2Br_4$   |
| -           | Tribromotrifluoropropane   | $C_3H_2F_3Br_3$   |
| -           | Dibromotetrafluoropropane  | $C_3H_2F_4Br_2$   |
| 460-88-8    | Bromopentafluoropropane    | $C_3H_2F_5Br$     |
| -           | Tetrabromofluoropropane    | $C_3H_3FBr_4$     |
| 70192-80-2  | Tribromodifluoropropane    | $C_3H_3F_2Br_3$   |
| 70192-83-5  | Dibromotrifluoropropane    | $C_3H_3F_3Br_2$   |
| 679-84-5    | Bromotetrafluoropropane    | $C_3H_3F_4Br$     |
| 75372-14-4  | Tribromofluoropropane      | $C_3H_4FBr_3$     |
| 460-25-3    | Dibromodifluoropropane     | $C_3H_4F_2Br_2$   |
| 421-46-5    | Bromotrifluoropropane      | $C_3H_4F_3Br$     |
| 51584-26-0  | Dibromofluoropropane       | $C_3H_5FBr_2$     |
| -           | Bromodifluoropropane       | $C_3H_5F_2Br$     |
| 352-91-0    | Bromofluoropropane         | $C_3H_6FBr$       |
| 74-97-5     | Chlorobromomethane         | $CH_2BrCl$        |
| 74-83-9     | Methylbromide              | $CH_3Br$          |
| 75-43-4     | HCFC-21                    | $CHFCl_2$         |
| 75-45-6     | HCFC-22                    | $CHF_2Cl$         |
| 593-70-4    | HCFC-31                    | $CH_2FCl$         |
| 134237-32-4 | HCFC-121                   | $C_2HFCl_4$       |
| 41834-16-6  | HCFC-122                   | $C_2HF_2Cl_3$     |
| 34077-87-7  | HCFC-123                   | $C_2HF_3Cl_2$     |
| 306-83-2    | HCFC-123                   | $CHCl_2CF_3$      |
| 63938-10-3  | HCFC-124                   | $C_2HF_4Cl$       |
| 2837-89-0   | HCFC-124                   | $CHFClCF_3$       |
| 134237-34-6 | HCFC-131                   | $C_2H_2FCl_3$     |
| 25915-78-0  | HCFC-132                   | $C_2H_2F_2Cl_2$   |
| 75-88-7     | HCFC-133                   | $C_2H_2F_3Cl$     |
| 25167-88-8  | HCFC-141                   | $C_2H_3FCl_2$     |
| 1717-00-6   | HCFC-141(b)                | $C_2H_3FCl_2$     |
| 25497-29-4  | HCFC-142                   | $C_2H_3F_2Cl$     |
| 75-68-3     | HCFC-142(b)                | $CH_3CF_2Cl$      |
| 1615-75-4   | HCFC-151                   | $C_2H_4FCl$       |
| 134237-35-7 | HCFC-221                   | $C_3HFCl_6$       |
| 134237-36-8 | HCFC-222                   | $C_3HF_2Cl_5$     |
| 134237-37-9 | HCFC-223                   | $C_3HF_3Cl_4$     |
| 134237-38-0 | HCFC-224                   | $C_2HF_4Cl_3$     |
| 127564-92-5 | HCFC-225                   | $C_3HF_5Cl_2$     |
| 422-56-0    | HCFC-225 ca                | $CF_3CF_2CHCl_2$  |
| 507-55-1    | HCFC-225 cb                | $CF_2ClCF_2CHClF$ |
| 134308-72-8 | HCFC-226                   | $C_3HF_6Cl$       |
| 134190-48-0 | HCFC-231                   | $C_3H_2FCl_5$     |
| 134237-39-1 | HCFC-232                   | $C_3H_2F_2Cl_4$   |
| 134237-40-4 | HCFC-233                   | $C_3H_2F_3Cl_3$   |
| 127564-83-4 | HCFC-234                   | $C_3H_2F_4Cl_2$   |
| 134237-41-5 | HCFC-235                   | $C_3H_2F_5Cl$     |
| 134190-49-1 | HCFC-241                   | $C_3H_3FCl_4$     |
| 134237-42-6 | HCFC-242                   | $C_3H_3F_2Cl_3$   |
| 134237-43-7 | HCFC-243                   | $C_3H_3F_3Cl_2$   |
| 134190-50-4 | HCFC-244                   | $C_3H_3F_4Cl$     |
| 134190-51-5 | HCFC-251                   | $C_3H_4FCl_3$     |
| 134190-52-6 | HCFC-252                   | $C_3H_4F_2Cl_2$   |
| 134237-44-8 | HCFC-253                   | $C_3H_4F_3Cl$     |

|      |             |                                                                              |                           |
|------|-------------|------------------------------------------------------------------------------|---------------------------|
|      | 134237-45-9 | HCFC-261                                                                     | $C_3H_5FCl_2$             |
|      | 134190-53-7 | HCFC-262                                                                     | $C_3H_5F_2Cl$             |
|      | 134190-54-8 | HCFC-271                                                                     | $C_3H_6FCl$               |
|      | 1649-08-7   | HCFC-132b                                                                    | $C_2H_2F_2Cl_2$           |
|      | 75-88-7     | HCFC-133a                                                                    | $C_2H_2F_3Cl$             |
|      |             | <b>Radioactive substances</b>                                                |                           |
|      | 7440-61-1   | Uranium                                                                      | U                         |
|      | 7440-07-5   | Plutonium                                                                    | Pu                        |
|      | 10043-92-2  | Radon                                                                        | Rn                        |
|      | 7440-35-9   | Americium                                                                    | Am                        |
|      | 7440-29-1   | Thorium                                                                      | Th                        |
|      | 7440-46-2   | Cesium                                                                       | Cs                        |
|      | 7440-24-6   | Strontium                                                                    | Sr                        |
|      | -           | Other radioactive substances                                                 | -                         |
| TA16 |             | deleted                                                                      |                           |
| TA17 |             | deleted                                                                      |                           |
|      |             | <b>Yellow Phosphorus (except for a semiconductor)<br/>And Red Phosphorus</b> |                           |
| TA18 | 12185-10-3  | Yellow Phosphorus                                                            | $P_4$                     |
|      | 7723-14-0   | Red Phosphorus                                                               | P                         |
| TA19 |             | deleted                                                                      |                           |
| TA20 |             | deleted                                                                      |                           |
| TA21 |             | deleted                                                                      |                           |
| TA22 |             | deleted                                                                      |                           |
| TA23 |             | deleted                                                                      |                           |
| TA24 |             | deleted                                                                      |                           |
| TA25 |             | deleted                                                                      |                           |
| TA26 |             | deleted                                                                      |                           |
| TA27 |             | deleted                                                                      |                           |
| TA28 |             | deleted                                                                      |                           |
| TA29 |             | deleted                                                                      |                           |
| TA30 |             | deleted                                                                      |                           |
| TA31 |             | deleted                                                                      |                           |
| TA32 |             | deleted                                                                      |                           |
| TA33 | 3846-71-7   | <b>2-benzotriazol-2-yl-4,6-di-tert-butyl-phenol</b>                          | $C_{20}H_{25}N_3O$        |
|      |             | <b>Perfluorooctane Sulfonate(PFOS) and its salts</b>                         | $C_8F_{17}SO_2X$          |
|      | 1763-23-1   | Perfluorooctanesulfonic acid                                                 | $C_8HF_{17}O_3S$          |
|      | 29081-56-9  | Perfluorooctanesulfonate amine                                               | $C_8F_{17}S O_3 NH_4$     |
|      | 70225-14-8  | Bis(2-hydroxyethyl) ammonium perfluorooctanesulfonate                        | $C_{12}H_{12}F_{17}NO_5S$ |
|      | 2795-39-3   | Potassium perfluorooctanesulfonate                                           | $C_8F_{17}KO_3S$          |
|      | 29457-72-5  | Lithium perfluorooctanesulfonate                                             | $C_8F_{17}LiO_3S$         |
|      | -           | Other perfluorooctane Sulfonate and its Salts                                |                           |
| TA35 | 624-49-7    | <b>Dimethylfumarate(DMF)</b>                                                 | $C_6H_8O_4$               |
|      |             | <b>Dibutyltin (DBT) compounds</b>                                            |                           |
|      | 818-08-6    | Dibutyltin oxide                                                             | $C_8H_{18}OSn$            |
|      | 1067-33-0   | Dibutyltin diacetate                                                         | $C_{12}H_{24}O_4Sn$       |
|      | 77-58-7     | Dibutyltin dilaurate                                                         | $C_{32}H_{64}O_4Sn$       |
|      | 78-04-6     | Dibutyltin maleate                                                           | $C_{12}H_{20}O_4Sn$       |
|      |             | Other dibutyltin compounds                                                   |                           |
| TA37 | 307-35-7    | Perfluorooctane sulfonyl fluoride (PFOF)                                     | $C_8F_{17}SO_2F$          |
| TA38 |             | deleted                                                                      |                           |
| TA39 |             | deleted                                                                      |                           |
| TA40 |             | deleted                                                                      |                           |
| TA41 |             | deleted                                                                      |                           |
| TA42 |             | deleted                                                                      |                           |
|      |             | <b>Diocetyl Tin (DOT) compounds</b>                                          |                           |
| TA43 | 870-08-6    | Diocetyl Tin Oxide                                                           |                           |

|      |                                                                                                                                                                                                                       |                                                                                                                              |                    |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------|
|      | 3648-18-8                                                                                                                                                                                                             | Diocetyl tin dilaurate                                                                                                       |                    |
|      | -                                                                                                                                                                                                                     | Other Diocetyl tin compounds                                                                                                 |                    |
| TA44 |                                                                                                                                                                                                                       | deleted                                                                                                                      |                    |
| TA45 |                                                                                                                                                                                                                       | deleted                                                                                                                      |                    |
| TA46 |                                                                                                                                                                                                                       | deleted                                                                                                                      |                    |
| TA47 |                                                                                                                                                                                                                       | deleted                                                                                                                      |                    |
|      |                                                                                                                                                                                                                       | <b>Hexabromocyclododecanes (HBCDDs)</b>                                                                                      | -                  |
| TA48 | 25637-99-4,<br>3194-55-6,<br>4736-49-6,<br>65701-47-5,<br>134237-50-6,<br>134237-51-7,<br>134237-52-8,<br>138257-17-7,<br>138257-18-8,<br>138257-19-9,<br>169102-57-2,<br>678970-15-5,<br>678970-16-6,<br>678970-17-7 | Hexabromocyclododecane (HBCDD) and all Major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) | $C_{12}H_{18}Br_6$ |
| TA49 | 117-81-7                                                                                                                                                                                                              | <b>Bis(2-ethylhexyl)phthalate) (DEHP)</b>                                                                                    | $C_{24}H_{38}O_4$  |
| TA50 | 84-74-2                                                                                                                                                                                                               | <b>Dibutyl phthalate (DBP)</b>                                                                                               | $C_{16}H_{22}O_4$  |
| TA51 | 85-68-7                                                                                                                                                                                                               | <b>Butyl benzyl phthalate (BBP)</b>                                                                                          | $C_{19}H_{20}O_4$  |
| TA52 | 84-69-5                                                                                                                                                                                                               | <b>Diisobutyl phthalate (DIBP)</b>                                                                                           | $C_{16}H_{22}O_4$  |
| TA53 |                                                                                                                                                                                                                       | <b>Perfluorooctanoic acid (PFOA) , its salts</b>                                                                             |                    |
|      | 335-67-1                                                                                                                                                                                                              | Perfluorooctanoic acid (PFOA)                                                                                                |                    |
|      | 1882109-81-0                                                                                                                                                                                                          | Hexanoic acid, 2,2,3,4,5,5,6,6,6-nonafluoro-3,4-bis(trifluoromethyl)-                                                        |                    |
|      | 1882109-80-9                                                                                                                                                                                                          | Hexanoic acid, 2,3,3,4,4,5,6,6,6-nonafluoro-2,5-bis(trifluoromethyl)-                                                        |                    |
|      | 1882109-79-6                                                                                                                                                                                                          | Hexanoic acid,<br>2,2,3,3,4,5,5,6,6,6-decafluoro-4-(1,1,2,2,2-pentafluoroethyl)-                                             |                    |
|      | 1882109-78-5                                                                                                                                                                                                          | Hexanoic acid,<br>2,2,3,4,4,5,5,6,6,6-decafluoro-3-(1,1,2,2,2-pentafluoroethyl)-                                             |                    |
|      | 1882109-77-4                                                                                                                                                                                                          | Pentanoic acid,<br>2,3,3,4,4,5,5,5-octafluoro-2-(1,1,2,2,3,3,3-heptafluoropropyl)-                                           |                    |
|      | 1882109-76-3                                                                                                                                                                                                          | Pentanoic acid,<br>2,3,3,4,4,5,5,5-octafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-                              |                    |
|      | 1882109-75-2                                                                                                                                                                                                          | Pentanoic acid, 2,2,3,5,5,5-hexafluoro-3,4,4-tris(trifluoromethyl)                                                           |                    |
|      | 1882109-74-1                                                                                                                                                                                                          | Pentanoic acid, 2,2,4,5,5,5-hexafluoro-3,3,4-tris(trifluoromethyl)-                                                          |                    |
|      | 1882109-73-0                                                                                                                                                                                                          | Pentanoic acid, 2,3,3,5,5,5-hexafluoro-2,4,4-tris(trifluoromethyl)-                                                          |                    |
|      | 1882109-72-9                                                                                                                                                                                                          | Pentanoic acid, 2,3,4,5,5,5-hexafluoro-2,3,4-tris(trifluoromethyl)-                                                          |                    |
|      | 1882109-71-8                                                                                                                                                                                                          | Pentanoic acid, 2,4,4,5,5,5-hexafluoro-2,3,3-tris(trifluoromethyl)-                                                          |                    |
|      | 1882109-70-7                                                                                                                                                                                                          | Pentanoic acid, 3,3,4,5,5,5-hexafluoro-2,2,4-tris(trifluoromethyl)-                                                          |                    |
|      | 1882109-69-4                                                                                                                                                                                                          | (NOT YET ASSIGNED)                                                                                                           |                    |
|      | 1882109-68-3                                                                                                                                                                                                          | Pentanoic acid,<br>2,2,3,4,5,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-4-(trifluoromethyl)-                             |                    |
|      | 1882109-67-2                                                                                                                                                                                                          | Pentanoic acid,<br>2,2,4,4,5,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-3-(trifluoromethyl)-                             |                    |
|      | 1882109-66-1                                                                                                                                                                                                          | Pentanoic acid,<br>2,3,4,4,5,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-2-(trifluoromethyl)-                             |                    |
|      | 1882109-65-0                                                                                                                                                                                                          | Pentanoic acid,<br>2,3,3,4,5,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-4-(trifluoromethyl)-                             |                    |
|      | 1882109-64-9                                                                                                                                                                                                          | Pentanoic acid,<br>2,3,4,4,5,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-3-(trifluoromethyl)-                             |                    |
|      | 1882109-63-8                                                                                                                                                                                                          | Pentanoic acid,                                                                                                              |                    |

|              |                                                                                                            |  |
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|              | 3,3,4,4,5,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-2-(trifluoromethyl)-                              |  |
| 1882109-62-7 | Butanoic acid, 4,4,4-trifluoro-2,2,3,3-tetrakis(trifluoromethyl)-                                          |  |
| 1882109-61-6 | Butanoic acid, 2,3,4,4,4-pentafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-3-(trifluoromethyl)- |  |
| 1882109-60-5 | Butanoic acid, 2,3,3,4,4,4-hexafluoro-2-[2,2,2-trifluoro-1,1-bis(trifluoromethyl)ethyl]-                   |  |
| 1882109-59-2 | Butanoic acid, 3,3,4,4,4-pentafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-2-(trifluoromethyl)- |  |
| 1882109-58-1 | Butanoic acid, 3,3,4,4,4-pentafluoro-2,2-bis(1,1,2,2,2-pentafluoroethyl)-                                  |  |
| 1812247-20-3 | Hexanoic acid, 2,2,4,4,5,5,6,6,6-nonafluoro-3,3-bis(trifluoromethyl)-                                      |  |
| 1812247-19-0 | Hexanoic acid, 2,3,3,4,5,5,6,6,6-nonafluoro-2,4-bis(trifluoromethyl)-                                      |  |
| 1812247-18-9 | Hexanoic acid, 2,3,4,4,5,5,6,6,6-nonafluoro-2,3-bis(trifluoromethyl)-                                      |  |
| 1812247-17-8 | Hexanoic acid, 3,3,4,4,5,5,6,6,6-nonafluoro-2,2-bis(trifluoromethyl)-                                      |  |
| 1192593-79-5 | Hexanoic acid, 2,2,3,3,5,5,6,6,6-nonafluoro-4,4-bis(trifluoromethyl)-                                      |  |
| 1144512-36-6 | Hexanoic acid, 2,2,3,3,4,5,6,6,6-nonafluoro-4,5-bis(trifluoromethyl)-                                      |  |
| 1144512-35-5 | Hexanoic acid, 2,2,3,4,4,5,6,6,6-nonafluoro-3,5-bis(trifluoromethyl)-                                      |  |
| 1144512-34-4 | Hexanoic acid, 2,2,3,3,4,4,6,6,6-nonafluoro-5,5-bis(trifluoromethyl)-                                      |  |
| 1144512-18-4 | Heptanoic acid, 2,2,3,3,4,5,5,6,6,7,7,7-dodecafluoro-4-(trifluoromethyl)-                                  |  |
| 909009-42-3  | Heptanoic acid, 2,2,3,3,4,4,5,6,6,7,7,7-dodecafluoro-5-(trifluoromethyl)-                                  |  |
| 705240-04-6  | Heptanoic acid, 2,2,3,4,4,5,5,6,6,7,7,7-dodecafluoro-3-(trifluoromethyl)-                                  |  |
| 207678-51-1  | Heptanoic acid, 2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-2-(trifluoromethyl)-                                  |  |
| 123116-17-6  | Isooctanoic acid, pentadecafluoro-                                                                         |  |
| 35605-76-6   | Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-                              |  |
| 15166-06-0   | Heptanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-                                |  |
| 3825-26-1    | 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-penta-deca-fluoro-octanoic acid, ammonium salt (APFO)                        |  |
| 335-95-5     | 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-penta-deca-fluoro-octanoic acid, sodium salt (Na-PFOA)                       |  |
| 2395-00-8    | 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-penta-deca-fluoro-octanoic acid, potassium salt (K-PFOA)                     |  |
| 335-93-3     | 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-penta-deca-fluoro-octanoic acid, silver salt                                 |  |
| 68141-02-6   | Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+)                                |  |
| 98241-25-9   | Ethanaminium, N,N,N-triethyl-, salt with pentadecafluorooctanoic acid (1:1)                                |  |
| 13058-06-5   | Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-, ammonium salt (1:1)         |  |
| 1195164-59-0 | Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-, sodium salt (1:1)           |  |
| 19742-57-5   | Heptanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, ammonium salt (1:1)           |  |
| 61436-04-2   | Heptanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, iron salt (1:x)               |  |
| 29457-73-6   | Heptanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, potassium salt (1:1)          |  |
| 18017-22-6   | Heptanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, sodium salt (1:1)             |  |
| 15739-82-9   | Heptanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, chromium                      |  |

|             |                                                                                                                                                                        |  |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|             | salt (1:x)                                                                                                                                                             |  |
| 15715-47-6  | Heptanoic acid,<br>2,2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, aluminum<br>salt (3:1)                                                                 |  |
| -           | Other Perfluorooctanoic Acid(PFOA) salts                                                                                                                               |  |
|             | <b>PFOA related substances</b>                                                                                                                                         |  |
| -           | Poly[2-(perfluorooctyl) ethyl acrylate] (PFOEA)                                                                                                                        |  |
| 678-39-7    | 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-Heptadecafluorodecan-1-ol(8:2<br>FTOH)                                                                                            |  |
| 27905-45-9  | 8:2 Fluorotelomer acrylate(8:2 FTAC)                                                                                                                                   |  |
| 1996-88-9   | 8:2 Fluorotelomer methacrylate(8:2 FTMAC)                                                                                                                              |  |
| 57678-03-2  | 8:2 Fluorotelomer phosphate monoester(8:2 monoPAP)                                                                                                                     |  |
| 94200-45-0  | Diammonium<br>4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-2-hydroxyund<br>ecyl phosphate                                                                    |  |
| 93857-44-4  | 8:2 Fluorotelomer phosphate monoester ammonium salt                                                                                                                    |  |
| 678-41-1    | 8:2 Fluorotelomer phosphate diester(8:2 diPAP)                                                                                                                         |  |
| -           | 8:2 Fluorotelomer stearate monoester(8:2 FTS)                                                                                                                          |  |
| -           | 8:2 Fluorotelomer sitrate triester                                                                                                                                     |  |
| 3102-79-2   | Perfluorodecylchloromethyl silane                                                                                                                                      |  |
| 74612-30-9  | Perfluorodecyltrimethylchloro silane                                                                                                                                   |  |
| 101947-16-4 | Perfluorooctylethyltriethoxy silane                                                                                                                                    |  |
| 78560-44-8  | Perfluorodecyltrichlorosilane                                                                                                                                          |  |
| 83048-65-1  | Heptadecafluoro-1,1,2,2-tetrahydrodecyl) trimethoxy silane                                                                                                             |  |
| 325459-92-5 | Tris[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phe<br>nyl]phosphine                                                                                 |  |
| 326475-46-1 | bis[tris(4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)<br>phenyl)phosphine] palladium(ii) dichloride                                                   |  |
| 21652-58-4  | 8:2 Fluorotelomer olefin or<br>3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-1-decene(8:2<br>FTO)                                                               |  |
| 2043-53-0   | 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-Heptadecafluoro-10-iododecane(8:2<br>FTI)                                                                                            |  |
| 70887-84-2  | 2-Decenoic acid,<br>3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-hexadecafluoro-(8:2 FTUCA)                                                                                      |  |
| 27854-31-5  | Decanoic acid,<br>3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-(8:2 FTCA)                                                                                      |  |
| 865-86-1    | 1,1,2,2-Tetrahydroperfluoro dodecanol(10:2 FTOH)                                                                                                                       |  |
| 17741-60-5  | 2-(Perfluorodecyl) ethyl acrylate(10:2 FTAC)                                                                                                                           |  |
| 2144-54-9   | 2-(Perfluorodecyl) ethyl methacrylate(10:2 FTMAC)                                                                                                                      |  |
| 57678-05-4  | 3,3,4,4,5,5,6,6,7,7,8,8,9,9,<br>10,10,11,11,12,12,12-heneicosafuoro-1-dodecanol,1-(dihydrogen<br>phosphate)(10:2 monoPAP)                                              |  |
| 1895-26-7   | bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,<br>10, 10,11,11,12,12,12-heneicosafuoro-1-dodecanol),hydrogen<br>phosphate(10:2 diPAP)                                                |  |
| 30389-25-4  | 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-1-do<br>decene(10:2 FTO)                                                                               |  |
| 2043-54-1   | 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-12-iododo<br>decan(10:2 FTI)                                                                                |  |
| 70887-94-4  | 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-icosafuorododec-2-en<br>oic acid(10:2 FTUCA)                                                                            |  |
| 53826-13-4  | 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuorododec<br>anoic acid(10:2 FTCA)                                                                           |  |
| 40143-79-1  | Bis(perfluorooctyl) phosphinic acid(C8/C8-PFPIA)                                                                                                                       |  |
| 610800-34-5 | Bis(perfluorooctyl) phosphinic acid(C6/C8-PFPIA)                                                                                                                       |  |
| 507-63-1    | Perfluorooctyl iodide(PFOI)                                                                                                                                            |  |
| 39186-68-0  | 2-carboxyethylbis (2-hydroxyethyl)-3-<br>[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl) amino]<br>propylammonium hydroxide                                |  |
| 41358-63-8  | N-[3-[bis(2-hydroxyethyl)amino]propyl]-<br>2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanamide                                                                     |  |
| 24216-05-5  | 3,4-bis[(2,2,3,3,4,4,5,5,6,6,7,7,<br>8,8,8-pentadecafluoro-1- oxooctyl)amino] benzenesulphonyl chloride<br>or 3,4-Bis(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1- |  |

|                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                  | oxooctylamino) benzenesulfonyl chloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| 53517-98-9                                                                       | 1-Propanaminium,<br>N,N,N-trimethyl-3-<br>[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl) amino]-,<br>chloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| 85938-56-3<br>EINECS<br>288-891-4                                                | N-(3-aminopropyl)-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoroocta<br>namide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| 89685-61-0                                                                       | 1-Propanesulfonic acid,3-[ethyl<br>(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-,so<br>dium salt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 84029-60-7                                                                       | heptadecafluoro-1-<br>[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl)oxy]nonene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| 335-66-0                                                                         | Pentadecafluoro-octanoyl fluoride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| 376-27-2                                                                         | Pentadecafluoro-octanoic acid methyl ester                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| 3108-24-5                                                                        | Pentadecafluoro-octanoic acid ethyl ester                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| 33496-48-9                                                                       | Pentadecafluorooctanoic anhydride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| 116984-14-6<br>17741-60-5<br>34362-49-7<br>4813-57-4<br>34395-24-9<br>65150-93-8 | 2-Propenoic acid,<br>3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorodode<br>cyl ester, polymer with<br>3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl<br>2-propenoate,<br>alpha-(2-methyl-1-1-oxo-2-2-propenyl)-omega-[(2-methyl1oxo-2-pr<br>openyl)oxy]poly(oxy-1, 2-ethanediyl),<br>3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16<br>,16-nonacosafuorohexadecyl 2-propenoate, octadecyl 2-propenoate,<br>3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacos<br>afluorotetradecyl 2-propenoate and<br>3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16<br>,17,17,18,18,18-tritriacontafluorooctadecyl<br>2-propenoate(Co-polymer made by a mix where some are PFOA<br>precursors) |  |
| 68333-92-6                                                                       | Fatty acids, C7-13, perfluoro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| 69278-80-4                                                                       | Fatty acids, C7-13, perfluoro, compds. with ethylamine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| 72623-77-9                                                                       | Fatty acids, C6-18, perfluoro, ammonium salts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| 72968-38-8                                                                       | Carboxylic acids, C7-13, perfluoro, ammonium salts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| 90480-57-2                                                                       | Octanoic acid, pentadecafluoro-,mixed esters with 2,2'-[1,4-<br>butanediylbis(oxymethylene)]bis[oxirane] and<br>2,2'-[1,6-Hexanediylbis (oxymethylene)]bis[oxirane]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| 91032-01-8                                                                       | Fatty acids, C7-19, perfluoro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| 90622-99-4                                                                       | Amides, C7-19,alpha-omega-perfluoro-N,N- bis(hydroxyethyl)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| 95370-51-7                                                                       | Carbamic acid,<br>[2-(sulfothio)ethyl]-,C-(gamma-omega-perfluoro-C6-9-alkyl) esters,<br>monosodium salts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| 148240-85-1                                                                      | 1,3-Propanediol, 2,2-bis(gamma-omega-<br>perfluoro-C4-10-alkyl)thiomethyl derivs., phosphates, ammonium<br>salts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 148240-87-3                                                                      | 1,3-Propanediol, 2,2-bis(gamma-omega-<br>perfluoro-C6-12-alkyl)thiomethyl derivs., phosphates, ammonium<br>salts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 71608-61-2                                                                       | Pentanoic acid, 4,4-bis (gamma-omega-perfluoro- C8-20-alkyl)thio<br>derivs., compds.with diethanolamine or 4,4-Bis[(gamma-omega-perfluoro- alkyl<br>(C=8-20)) thio] pentanoic acid derivs. compds.with diethanolamine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| 93480-00-3                                                                       | Poly(oxy-1,2-ethanediyl),alpha-[2-<br>[2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]ethy<br>l] -omega-hydro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| 53515-73-4                                                                       | 2-Propenoic acid, 2-methyl-, 2,2,3,3,4,4,5,5,6,<br>6,7,7,8,8,8-pentadecafluorooctyl ester, polymer with 2- propenoic<br>acid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 65530-57-6                                                                       | Poly(difluoromethylene), alpha-fluoro-omega-[2- [[2-<br>(trimethylammonio)ethyl]thio]ethyl]-, methyl sulfate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 65530-62-3                                                                       | Poly(difluoromethylene), alpha,alpha- phosphinico<br>bis(oxy-2,1-ethanediyl) bis-omega-fluoro-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 65530-61-2                                                                       | Poly(difluoromethylene),alpha-fluoro-omega-2-(phosphonoxy)ethyl<br>-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 80010-37-3                                                                       | Poly(difluoromethylene),alpha-fluoro-omega-(2-sulfoethyl)-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |

|      |            |                                                 |  |
|------|------------|-------------------------------------------------|--|
|      | -          | Other PFOA related substances                   |  |
| TA54 | 68937-41-7 | Phenol, Isopropylated Phosphate (3:1) (PIP 3:1) |  |
| TA55 | 133-49-3   | Pentachlorothiophenol (PCTP)                    |  |

**Substances Contained within Delivered Products that Should be Reported (typical examples)**

| No. | CAS         | Chemical substance name                                                                                                                                                                                              | Chemical formula                                     |
|-----|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| TB1 | 9002-86-2   | <b>Polyvinylchloride(PVC) and its compounds</b>                                                                                                                                                                      | $(CH_2CHCl)_n$                                       |
| TB2 |             | <b>Tetrabromo-bisphenol A(TBBPA,TBBA)</b>                                                                                                                                                                            |                                                      |
|     | 79-94-7     | Tetrabromo-bisphenol A                                                                                                                                                                                               | $C_{15}H_{12}Br_4O_2$                                |
|     | 30496-13-0  | TBBA, unspecified                                                                                                                                                                                                    | -                                                    |
|     | 40039-93-8  | TBBA-epichlorhydrin oligomer                                                                                                                                                                                         | $(C_{15}H_{12}Br_4O_2.C_3H_5ClO)_x$                  |
|     | 70682-74-5  | TBBA-diglycidyl-ether oligomer                                                                                                                                                                                       | -                                                    |
|     | 28906-13-0  | TBBA carbonate oligomer                                                                                                                                                                                              | $(C_{15}H_{12}Br_4O_2.CCl_2O)_x$                     |
|     | 94334-64-2  | TBBA carbonate oligomer,phenoxy end capped                                                                                                                                                                           | $(C_7H_5O_2)(C_{16}H_{10}Br_4O_3)_x(C_6H_5O)$        |
|     | 71342-77-3  | TBBA carbonate oligomer,2,4,6-tribromo-phenolterminated                                                                                                                                                              | $(C_7H_2Br_3O_3)(C_{16}H_{10}Br_4O_3)_n(C_6H_2Br_3)$ |
|     | 32844-27-2  | TBBA-bisphenol A-phosgene polymer                                                                                                                                                                                    | $(C_{15}H_{16}O_2.C_{15}H_{12}Br_4O_2.CCl_2O)_x$     |
|     | 21850-44-2  | TBBA-(2,3-dibromo-propyl-ether)                                                                                                                                                                                      | $C_{21}H_{20}Br_8O_2$                                |
|     | 4162-45-2   | TBBA bis-(2-hydroxy-ethyl-ether)                                                                                                                                                                                     | $C_{19}H_{20}Br_4O_4$                                |
|     | 25327-89-3  | TBBA-bis-(allyl-ether)                                                                                                                                                                                               | $C_{21}H_{20}Br_4O_2$                                |
|     | 37853-61-5  | TBBA-dimethyl-ether                                                                                                                                                                                                  | $C_{17}H_{16}Br_4O_2$                                |
| TB3 |             | <b>Brominated flame retardant (except for TA5, TA6, TA48, TB2)</b>                                                                                                                                                   |                                                      |
|     |             | Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(14)<br>[ Aliphatic/alicyclic brominated compounds]                                                                                | ISO code 1043-4                                      |
|     |             | Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(15)<br>[ Aliphatic/alicyclic brominated compounds in combination with antimony compounds]                                         | ISO code 1043-4                                      |
|     |             | Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(16)<br>[ Aromatic brominated compounds(excluding brominated diphenyl ether and biphenyls)]                                        | ISO code 1043-4                                      |
|     |             | Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(17)<br>[ Aromatic brominated compounds(excluding brominated diphenyl ether and biphenyls )in combination with antimony compounds] | ISO code 1043-4                                      |
|     |             | Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(22)<br>[ Aliphatic/alicyclic chlorinated and brominated compounds ]                                                               | ISO code 1043-4                                      |
|     |             | Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(42)<br>[Brominated organic phosphorus compounds]                                                                                  | ISO code 1043-4                                      |
|     | 69882-11-7  | Poly(2,6-dibromo-phenylene oxide)                                                                                                                                                                                    | $(C_6H_2Br_2O)_x$                                    |
|     | 58965-66-5  | Tetra-decabromo-diphenoxy-benzene                                                                                                                                                                                    | $C_{18}Br_{14}O_2$                                   |
|     | 37853-59-1  | 1,2-Bis(2,4,6-tribromo-phenoxy)ethane                                                                                                                                                                                | $C_{14}H_8Br_6O_2$                                   |
|     | 139638-58-7 | Brominated epoxy resin end-capped with tribromophenol                                                                                                                                                                | -                                                    |
|     | 135229-48-0 | Brominated epoxy resin end-capped with tribromophenol                                                                                                                                                                | -                                                    |
|     | 39635-79-5  | Tetrabromo-bisphenol S                                                                                                                                                                                               | $C_{12}H_6Br_4O_4S$                                  |
|     | 42757-55-1  | TBBS-bis-(2,3-dibromo-propyl-ether)                                                                                                                                                                                  | $C_{18}H_{14}Br_8O_4S$                               |
|     | 615-58-7    | 2,4-Dibromo-phenol                                                                                                                                                                                                   | $C_6H_4Br_2O$                                        |
|     | 118-79-6    | 2,4,6-tribromo-phenol                                                                                                                                                                                                | $C_6H_3Br_3O$                                        |

|     |                                                                            |                                                                                                                               |                                                                               |
|-----|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
|     | 608-71-9                                                                   | Pentabromo-phenol                                                                                                             | C <sub>6</sub> HBr <sub>5</sub> O                                             |
|     | 3278-89-5                                                                  | 2,4,6-Tribromo-phenyl-allyl-ether                                                                                             | C <sub>9</sub> H <sub>7</sub> Br <sub>3</sub> O                               |
|     | 26762-91-4                                                                 | Tribromo-phenyl-allyl-ether, unspecified                                                                                      | C <sub>9</sub> H <sub>7</sub> Br <sub>3</sub> O                               |
|     | 25637-99-4 ,<br>3194-55-6<br>(134237-51-7,<br>134237-50-6,<br>134237-52-8) | Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ – HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) | C <sub>12</sub> H <sub>18</sub> Br <sub>6</sub>                               |
|     | 31454-48-5                                                                 | Tetrabromo-chyclo-octane                                                                                                      | C <sub>8</sub> H <sub>12</sub> Br <sub>4</sub>                                |
|     | 3322-93-8                                                                  | 1,2-Dibromo-4-(1,2dibromo-methyl)-cyclo-hexane                                                                                | C <sub>8</sub> H <sub>12</sub> Br <sub>4</sub>                                |
|     | 25357-79-3                                                                 | TBPA Na salt                                                                                                                  | C <sub>8</sub> Br <sub>4</sub> O <sub>4</sub> Na <sub>2</sub>                 |
|     | 632-79-1                                                                   | Tetrabromo phthalic anhydride                                                                                                 | C <sub>8</sub> Br <sub>4</sub> O <sub>3</sub>                                 |
|     | 55481-60-2                                                                 | Bis(methyl)tetrabromo-phthalate                                                                                               | C <sub>10</sub> H <sub>6</sub> Br <sub>4</sub> O <sub>4</sub>                 |
|     | -                                                                          | Phthalic acid, 3,4,5,6-tetrabromo-, dialkyl ester (C=6~23)                                                                    | -                                                                             |
|     | 20566-35-2                                                                 | 2-Hydroxy-propyl-2-(2-hydroxy-ethoxy)-ethyl-TBP                                                                               | C <sub>15</sub> H <sub>16</sub> Br <sub>4</sub> O <sub>7</sub>                |
|     | 75790-69-1                                                                 | TBPA, glycol-and propylene-oxide esters                                                                                       | -                                                                             |
|     | 32588-76-4                                                                 | N,N'-Ethylene-bis (tetrabromo-phthalimide)                                                                                    | C <sub>18</sub> H <sub>4</sub> Br <sub>8</sub> N <sub>2</sub> O <sub>4</sub>  |
|     | 52907-07-0                                                                 | Ethylene-bis(5,6-dibromo-norbornane-2,3-dicarboximide)                                                                        | C <sub>20</sub> H <sub>20</sub> Br <sub>4</sub> N <sub>2</sub> O <sub>4</sub> |
|     | 3234-02-4                                                                  | 2,3-Dibromo-2-butene-1,4-diol                                                                                                 | C <sub>4</sub> H <sub>6</sub> Br <sub>2</sub> O <sub>2</sub>                  |
|     | 3296-90-0                                                                  | Dibromo-neopentyl-glycol                                                                                                      | C <sub>5</sub> H <sub>10</sub> Br <sub>2</sub> O <sub>2</sub>                 |
|     | 96-13-9                                                                    | 2,3-Dibromo-propanol                                                                                                          | C <sub>3</sub> H <sub>6</sub> Br <sub>2</sub> O                               |
|     | 36483-57-5                                                                 | Tribromo-neopentyl-alcohol                                                                                                    | C <sub>5</sub> H <sub>9</sub> Br <sub>3</sub> O                               |
|     | 57137-10-7                                                                 | Poly tribromo-styrene                                                                                                         | -                                                                             |
|     | 61368-34-1                                                                 | Tribromo-styrene                                                                                                              | C <sub>8</sub> H <sub>5</sub> Br <sub>3</sub>                                 |
|     | 171091-06-8                                                                | Dibromo-styrene grafted PP                                                                                                    | -                                                                             |
|     | 31780-26-4                                                                 | Poly-dibromo-styrene                                                                                                          | C <sub>8</sub> H <sub>6</sub> Br <sub>2</sub>                                 |
|     | 68955-41-9                                                                 | Bromo-/Chloro-paraffins                                                                                                       | -                                                                             |
|     | 82600-56-4                                                                 | Bromo-/Chloro-alpha-olefin                                                                                                    | -                                                                             |
|     | 593-60-2                                                                   | Vinylbromide                                                                                                                  | C <sub>2</sub> H <sub>3</sub> Br                                              |
|     | 52434-90-9                                                                 | Tris-(2,3-dibromo-propyl)-isocyanurate                                                                                        | C <sub>12</sub> H <sub>15</sub> Br <sub>6</sub> N <sub>3</sub> O <sub>3</sub> |
|     | 49690-63-3                                                                 | Tris(2,4-Dibromo-phenyl) phosphate                                                                                            | C <sub>18</sub> H <sub>9</sub> Br <sub>6</sub> O <sub>4</sub> P               |
|     | 19186-97-1                                                                 | Tris(tribromo-neopentyl) phosphate                                                                                            | C <sub>15</sub> H <sub>24</sub> Br <sub>9</sub> O <sub>4</sub> P              |
|     | 125997-20-8                                                                | Chlorinated and brominated phosphate esther                                                                                   | -                                                                             |
|     | 87-83-2                                                                    | Pentabromo-toluene                                                                                                            | C <sub>7</sub> H <sub>3</sub> Br <sub>5</sub>                                 |
|     | 38521-51-6                                                                 | Pentabromo-benzyl bromide                                                                                                     | C <sub>7</sub> H <sub>2</sub> Br <sub>6</sub>                                 |
|     | 68441-46-3                                                                 | 1,3-Butadiene homopolymer, brominated                                                                                         | -                                                                             |
|     | 59447-55-1                                                                 | Pentabromo-benzyl-acrylate, monomer                                                                                           | C <sub>10</sub> H <sub>5</sub> Br <sub>5</sub> O <sub>2</sub>                 |
|     | 59447-57-3                                                                 | Pentabromo-benzyl-acrylate, polymer                                                                                           | (C <sub>10</sub> H <sub>5</sub> Br <sub>5</sub> O <sub>2</sub> ) <sub>x</sub> |
|     | 84852-53-9                                                                 | Decabromo-diphenyl-ethane                                                                                                     | C <sub>14</sub> H <sub>4</sub> Br <sub>10</sub> O <sub>2</sub>                |
|     | 61262-53-1                                                                 | Tribromo-bisphenyl-maleinimide                                                                                                | C <sub>10</sub> H <sub>4</sub> Br <sub>3</sub> NO <sub>2</sub>                |
|     | 59789-51-4                                                                 | Brominated trimethylphenyl-lindane                                                                                            | C <sub>18</sub> H <sub>13</sub> Br <sub>n</sub> (n=7,8)                       |
|     | -                                                                          | Other Brominated flame retardants                                                                                             | -                                                                             |
|     |                                                                            | <b>Antimony and its compounds</b>                                                                                             |                                                                               |
| TB4 | 7440-36-0                                                                  | Antimony                                                                                                                      | Sb                                                                            |
|     | 10025-91-9                                                                 | Antimony trichloride                                                                                                          | SbCl <sub>3</sub>                                                             |
|     | 1309-64-4                                                                  | Antimony trioxide                                                                                                             | Sb <sub>2</sub> O <sub>3</sub>                                                |
|     | 1314-60-9                                                                  | Antimony pentoxide                                                                                                            | Sb <sub>2</sub> O <sub>5</sub>                                                |
|     | 15432-85-6                                                                 | Sodium antimony                                                                                                               | Na <sub>3</sub> O <sub>4</sub> Sb                                             |
|     | -                                                                          | Other antimony compounds                                                                                                      |                                                                               |
|     |                                                                            | <b>Arsenic and its compounds</b>                                                                                              |                                                                               |
| TB5 | 7440-38-2                                                                  | Arsenic                                                                                                                       | As                                                                            |
|     | 1303-00-0                                                                  | Gallium arsenide                                                                                                              | GaAs                                                                          |
|     | 1303-28-2                                                                  | Diaresenic pentoxide                                                                                                          | As <sub>2</sub> O <sub>5</sub>                                                |
|     | 1327-53-3                                                                  | Diaresenic trioxide                                                                                                           | As <sub>2</sub> O <sub>3</sub>                                                |
|     | 7784-40-9                                                                  | Lead hydrogen arsenate                                                                                                        | AsHO <sub>4</sub> Pb                                                          |
|     | 15606-95-8                                                                 | Triethyl aresenate                                                                                                            | C <sub>6</sub> H <sub>15</sub> AsO <sub>4</sub>                               |
|     | -                                                                          | Other arsenic compounds                                                                                                       | -                                                                             |

|      |            |                                             |                                                                                                    |
|------|------------|---------------------------------------------|----------------------------------------------------------------------------------------------------|
| TB6  |            | <b>Beryllium and its compounds</b>          |                                                                                                    |
|      | 7440-41-7  | Beryllium                                   | Be                                                                                                 |
|      | 1304-56-9  | Beryllium oxide                             | BeO                                                                                                |
|      | -          | Other Beryllium compounds                   |                                                                                                    |
| TB7  |            | <b>Bismuth and its compounds.</b>           |                                                                                                    |
|      | 7440-69-9  | Bismuth                                     | Bi                                                                                                 |
| TB8  |            | <b>Nickel and its compounds.</b>            |                                                                                                    |
|      | 1313-99-1  | Nickel(II) oxide                            | NiO                                                                                                |
|      | 3333-67-3  | Nickel(II) carbonate                        | NiCO <sub>3</sub>                                                                                  |
|      | 7786-81-4  | Nickel(II) sulfate                          | NiSO <sub>4</sub>                                                                                  |
|      | 7440-02-0  | Nickel                                      | Ni                                                                                                 |
|      | -          | Other nickel compounds                      |                                                                                                    |
| TB9  |            | <b>Some Phthalic Esters</b>                 |                                                                                                    |
|      | 26761-40-0 | Diisodecyl phthalate(DIDP)                  | C <sub>6</sub> H <sub>4</sub> (COOC <sub>10</sub> H <sub>21</sub> ) <sub>2</sub>                   |
|      | 28553-12-0 | Diisononyl phthalate(DINP)                  | C <sub>6</sub> H <sub>4</sub> (COOC <sub>9</sub> H <sub>19</sub> ) <sub>2</sub>                    |
|      | 117-84-0   | Di-n-octyl phthalate(DnOP)                  | (C <sub>6</sub> H <sub>4</sub> )(COO(CH <sub>2</sub> ) <sub>7</sub> CH <sub>3</sub> ) <sub>2</sub> |
|      | 84-61-7    | Dicyclo hexyl phthalat (DCHP)               | C <sub>20</sub> H <sub>26</sub> O <sub>4</sub>                                                     |
|      | 84-66-2    | Diethyl phthalat (DEP)                      | C <sub>12</sub> H <sub>14</sub> O <sub>4</sub>                                                     |
|      | 41451-28-9 | Diiso heptyl phthalat (DIHP)                | C <sub>22</sub> H <sub>34</sub> O <sub>4</sub>                                                     |
|      | 117-82-8   | Bis (2-methoxyethyl) phthalate              | C <sub>14</sub> H <sub>18</sub> O <sub>6</sub>                                                     |
|      | 605-50-5   | Diiso penthyl phthalate                     | C <sub>13</sub> H <sub>16</sub> O <sub>4</sub>                                                     |
| TB10 |            | <b>Selenium and its compounds</b>           |                                                                                                    |
|      | 7782-49-2  | Selenium                                    | Se                                                                                                 |
|      | 7783-00-8  | Selenous acid                               | H <sub>2</sub> SeO <sub>3</sub>                                                                    |
|      | -          | Other selenium compounds                    |                                                                                                    |
| TB11 |            | <b>Zinc and its compounds</b>               |                                                                                                    |
|      | 10025-64-6 | Zinc perchlorate hexahydrate                | Zn(ClO <sub>4</sub> ) <sub>2</sub> ·6H <sub>2</sub> O                                              |
|      | 10139-47-6 | Zinc Iodide                                 | ZnI <sub>2</sub>                                                                                   |
|      | 10196-18-6 | Zinc nitrate hexahydrate                    | Zn(NO <sub>3</sub> ) <sub>2</sub> ·6H <sub>2</sub> O                                               |
|      | 10361-95-2 | Zinc chlorate                               | Zn(ClO <sub>3</sub> ) <sub>2</sub>                                                                 |
|      | 1313-49-1  | Zinc nitride                                | Zn <sub>3</sub> N <sub>2</sub>                                                                     |
|      | 1314-13-2  | Zinc oxide                                  | ZnO                                                                                                |
|      | 1314-84-7  | Zinc phosphide                              | Zn <sub>3</sub> P <sub>2</sub>                                                                     |
|      | 1314-98-3  | Zinc sulfide                                | ZnS                                                                                                |
|      | 1315-11-3  | Zinc telluride                              | ZnTe                                                                                               |
|      | 13530-65-9 | Zinc chromate                               | CrO <sub>4</sub> Zn                                                                                |
|      | 13637-61-1 | Zinc perchlorate                            | Zn(ClO <sub>4</sub> ) <sub>2</sub>                                                                 |
|      | 13814-87-4 | Ammonium zinc sulfate                       | (NH <sub>4</sub> ) <sub>2</sub> Zn(SO <sub>4</sub> ) <sub>2</sub>                                  |
|      | 13932-17-7 | Potassium zinc sulfate                      | K <sub>2</sub> Zn(SO <sub>4</sub> ) <sub>2</sub>                                                   |
|      | 14485-28-0 | Zinc phosphate,monobasic                    | Zn(H <sub>2</sub> PO <sub>4</sub> ) <sub>2</sub>                                                   |
|      | 14639-97-5 | Zinc ammonium chloride                      | (NH <sub>4</sub> ) <sub>2</sub> [ZnCl <sub>4</sub> ]                                               |
|      | 15060-64-7 | Zinc hypophoshite                           | Zn(PH <sub>2</sub> O <sub>2</sub> ) <sub>2</sub>                                                   |
|      | 16871-71-9 | Zinc fluorosilicate                         | Zn[SiF <sub>6</sub> ]                                                                              |
|      | 544-97-8   | Dimethyl zinc                               | Zn(CH <sub>3</sub> ) <sub>2</sub>                                                                  |
|      | 557-20-0   | Diethyl zinc                                | Zn(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub>                                                    |
|      | 557-21-1   | Zinc cyanide                                | Zn(CN) <sub>2</sub>                                                                                |
|      | 557-34-6   | Zinc acetate                                | Zn(CH <sub>3</sub> COO) <sub>2</sub>                                                               |
|      | 557-42-6   | Zinc thiocyanate                            | Zn(SCN) <sub>2</sub>                                                                               |
|      | 5970-45-6  | Zinc acetate dehydrate                      | Zn(CH <sub>3</sub> COO) <sub>2</sub> ·2H <sub>2</sub> O                                            |
|      | 73640-07-0 | Zinc fluoride tetrahydrate                  | ZnF <sub>2</sub> ·4H <sub>2</sub> O                                                                |
|      | 7446-20-0  | Sulfuric acid, zinc salt(1:1), Heptahydrate | ZnSO <sub>4</sub> ·7H <sub>2</sub> O                                                               |
|      | 7646-85-7  | Zinc chloride                               | ZnCl <sub>2</sub>                                                                                  |
|      | 7699-45-8  | Zinc bromide                                | ZnBr <sub>2</sub>                                                                                  |
|      | 7733-02-0  | Zinc sulfate                                | ZnSO <sub>4</sub>                                                                                  |
|      | 7779-86-4  | Zinc hydrosulfite                           | ZnS <sub>2</sub> O <sub>4</sub>                                                                    |
|      | 7779-88-6  | Zinc nitrate                                | Zn(NO <sub>3</sub> ) <sub>2</sub>                                                                  |

|      |             |                                           |                                                                     |
|------|-------------|-------------------------------------------|---------------------------------------------------------------------|
|      | 7783-49-5   | Zinc fluoride                             | $\text{ZnF}_2$                                                      |
|      | 77998-33-5  | Ammonium zinc sulfate hydrate             | $(\text{NH}_4)_2\text{Zn}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$ |
| TB12 |             | <b>Long chain chlorinated paraffins</b>   |                                                                     |
|      |             | Long chain chlorinated paraffins (C18-30) | $\text{C}_n\text{H}_{2n+2-x}\text{Cl}_x$ (n : 18-30)                |
|      |             | <b>Cyanogen compounds.</b>                |                                                                     |
|      | 100-47-0    | Benzonitrile                              | $\text{C}_7\text{H}_5\text{N}$                                      |
|      | 107-13-1    | Acrylonitrile                             | $\text{C}_3\text{H}_3\text{N}$                                      |
|      | 109-78-4    | Ethylene cyanohydrin                      | $\text{C}_3\text{H}_5\text{NO}$                                     |
|      | 1194-65-6   | 2,6-Dichloro benzonitrile                 | $\text{C}_7\text{H}_3\text{Cl}_2\text{N}$                           |
|      | 13453-34-4  | Thallium(I) cyanide                       | $\text{TlCN}$                                                       |
|      | 140-29-4    | Phenyl acetonitrile                       | $\text{C}_8\text{H}_7\text{N}$                                      |
|      | 143-33-9    | Sodium cyanide                            | $\text{NaCN}$                                                       |
|      | 14763-77-0  | Copper cyanide                            | $\text{Cu}(\text{CN})_2$                                            |
|      | 151-50-8    | Potassium cyanide                         | $\text{KCN}$                                                        |
|      | 156-62-7    | Calcium cyanamide                         | $\text{CCaN}_2$                                                     |
|      | 2035-66-7   | Palladium(II) cyanide                     | $\text{Pd}(\text{CN})_2$                                            |
|      | 21159-32-0  | Cesium cyanide                            | $\text{CsCN}$                                                       |
|      | 21725-46-2  | Cyanazine                                 | $\text{C}_9\text{H}_{13}\text{ClN}_6$                               |
|      | 420-04-2    | Cyanamide                                 | $\text{NCNH}_2$                                                     |
|      | 460-19-5    | Cyanogen                                  | $(\text{CN})_2$                                                     |
|      | 506-64-9    | Silver cyanide                            | $\text{AgCN}$                                                       |
|      | 506-65-0    | Gold(I) cyanide                           | $\text{AuCN}$                                                       |
|      | 506-68-3    | Cyanogen bromide                          | $\text{CNBr}$                                                       |
|      | 506-77-4    | Cyanogen chloride                         | $\text{CNCl}$                                                       |
|      | 506-78-5    | Cyanogen iodide                           | $\text{CNI}$                                                        |
|      | 535-37-5    | Gold(I)cyanide trihydrate                 | $\text{Au}(\text{CN})_3 \cdot 3\text{H}_2\text{O}$                  |
|      | 535-37-5    | Gold(I) cyanide                           | $\text{Au}(\text{CN})_3$                                            |
|      | 542-62-1    | Barium cyanide                            | $\text{Ba}(\text{CN})_2$                                            |
|      | 542-83-6    | Cadmium cyanide                           | $\text{Cd}(\text{CN})_2$                                            |
|      | 542-84-7    | Cobalt(II) cyanide                        | $\text{Co}(\text{CN})_2$                                            |
|      | 544-92-3    | Cuprous cyanide                           | $\text{CuCN}$                                                       |
|      | 557-19-7    | Nickel cyanide                            | $\text{Ni}(\text{CN})_2$                                            |
|      | 557-21-1    | Zinc cyanide                              | $\text{Zn}(\text{CN})_2$                                            |
|      | 592-01-8    | Calcium cyanide                           | $\text{Ca}(\text{CN})_2$                                            |
|      | 592-04-1    | Mercuric cyanide                          | $\text{Hg}(\text{CN})_2$                                            |
|      | 592-05-2    | Lead cyanide                              | $\text{Pb}(\text{CN})_2$                                            |
|      | 592-06-3    | Platinum(II) cyanide                      | $\text{Pt}(\text{CN})_2$                                            |
|      | 74-90-8     | Hydrogen cyanide                          | $\text{HCN}$                                                        |
|      | 7677-24-9   | Trimethylsilyl cyanide                    | $\text{Si}(\text{CN})(\text{CH}_3)_3$                               |
|      | 917-61-3    | Sodium cyanide                            | $\text{CNNaO}$                                                      |
|      |             | <b>Perfluorocarbon (PFC)</b>              |                                                                     |
|      | 115-25-3    | Octafluorocyclobutane                     | $\text{C}_4\text{F}_8$                                              |
|      | 307-34-6    | Octadecafluorooctane, Perfluorooctane     | $\text{C}_8\text{F}_{18}$                                           |
|      | 335-57-9    | PFC72,PFC-51-14                           | $\text{C}_7\text{F}_{16}$                                           |
|      | 355-25-9    | PFC218                                    | $\text{C}_4\text{F}_{10}$                                           |
|      | 355-42-0    | Tetradecafluorohexane, Perfluorohexane    | $\text{C}_6\text{F}_{14}$                                           |
|      | 678-26-2    | PFC410                                    | $\text{C}_5\text{F}_{12}$                                           |
|      | 75-73-0     | Tetrafluoromethane                        | $\text{CF}_4$                                                       |
|      | 76-16-4     | PFC14                                     | $\text{C}_2\text{F}_6$                                              |
|      | 76-19-7     | PFC116                                    | $\text{C}_3\text{F}_8$                                              |
|      |             | <b>Hydrogenerated fluorocarbon (HFC)</b>  |                                                                     |
|      | 811-97-2    | HFC-134a                                  | $\text{CH}_2\text{FCF}_3$                                           |
|      | 138495-42-8 | HFC-43-10mee                              | $\text{C}_5\text{H}_2\text{F}_{10}$                                 |
|      | 354-33-6    | HFC-125                                   | $\text{CHF}_2\text{CF}_3, \text{C}_2\text{HF}_5$                    |
|      | 407-59-0    | HFC-356mff,HFC-356ffa                     | $\text{C}_4\text{H}_4\text{F}_6$                                    |
|      | 420-46-2    | HFC-143a                                  | $\text{CH}_3\text{CF}_3$                                            |
|      | 430-66-0    | HFC-143                                   | $\text{CHF}_2\text{CH}_2\text{F}$                                   |

|      |            |                                                                                                                         |                                                                     |
|------|------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
|      | 431-89-0   | HFC-227ea                                                                                                               | CF <sub>3</sub> CHFCF <sub>3</sub> , C <sub>3</sub> HF <sub>7</sub> |
|      | 679-86-7   | HFC-245ca                                                                                                               | C <sub>3</sub> H <sub>3</sub> F <sub>5</sub>                        |
|      | 690-39-1   | HFC-236fa                                                                                                               | C <sub>3</sub> H <sub>2</sub> F <sub>6</sub>                        |
|      | 75-10-5    | HFC-32                                                                                                                  | CH <sub>2</sub> F <sub>2</sub>                                      |
|      | 75-37-6    | HFC-152a                                                                                                                | CH <sub>3</sub> CHF <sub>2</sub>                                    |
|      | 75-46-7    | HFC-23                                                                                                                  | CHF <sub>3</sub>                                                    |
|      | 593-53-3   | HFC-41                                                                                                                  | CH <sub>3</sub> F                                                   |
|      | 359-35-3   | HFC-134                                                                                                                 | CHF <sub>2</sub> CHF <sub>2</sub>                                   |
|      | 460-73-1   | HFC-245fa                                                                                                               | -                                                                   |
|      | -          | HFC-125/143a/134a=44/52/4                                                                                               | -                                                                   |
|      | -          | HFC-32/125/134a=20/40/40                                                                                                | -                                                                   |
|      | -          | HFC-32/125/134a=23/25/52                                                                                                | -                                                                   |
|      | -          | HFC-32/125=50/50                                                                                                        | -                                                                   |
|      | -          | HFC-32/125=45/55                                                                                                        | -                                                                   |
|      | -          | HFC-32/143a=50/50                                                                                                       | -                                                                   |
|      | -          | HFC-23/FC-116=39/61                                                                                                     | -                                                                   |
|      | -          | HFC-23/FC-116=46/54                                                                                                     | -                                                                   |
| TB16 |            | <b>Halogenated additives (except for TA5, TA6, TA48, TB2, TB3)</b>                                                      |                                                                     |
|      | 115-96-8   | Tris (2-chloroethyl)phosphate                                                                                           | C <sub>6</sub> H <sub>12</sub> Cl <sub>3</sub> PO <sub>4</sub>      |
|      | 21850-44-2 | TBBA-(2,3-dibromo-propyl-ether)                                                                                         | C <sub>21</sub> H <sub>20</sub> Br <sub>8</sub> O <sub>2</sub>      |
|      | 3194-55-6  | 1,2,5,6,9,10-Hexabromocyclodecane                                                                                       | C <sub>12</sub> H <sub>18</sub> Br <sub>6</sub>                     |
|      | 79-27-6    | 1,1,2,2-Tetrabromoethane                                                                                                | C <sub>2</sub> H <sub>2</sub> Br <sub>4</sub>                       |
|      | 79-94-7    | Tetrabromo-bisphenol A(TBBA)                                                                                            | C <sub>15</sub> H <sub>12</sub> Br <sub>4</sub> O <sub>2</sub>      |
|      | 87-82-1    | Hexabromobenzene                                                                                                        | C <sub>6</sub> Br <sub>6</sub>                                      |
|      | 9002-84-0  | Polytetrafluoroethylene                                                                                                 | (C <sub>2</sub> F <sub>4</sub> ) <sub>n</sub>                       |
|      | 75-25-2    | Tribromomethane                                                                                                         | CHBr <sub>3</sub>                                                   |
|      | 118-79-6   | 2,4,6-Tribromo-Phenol                                                                                                   | C <sub>6</sub> H <sub>3</sub> Br <sub>3</sub> O                     |
| TB17 | 4162-45-2  | TBBA-bis(2-Hydroxy-ethyl-ether)                                                                                         | C <sub>19</sub> H <sub>20</sub> Br <sub>4</sub> O <sub>4</sub>      |
|      |            | <b>Maganese and its compounds</b>                                                                                       |                                                                     |
|      | 7439-96-5  | Manganese                                                                                                               | Mn                                                                  |
|      | 10031-20-6 | Manganese(II) bromide tetrahydrate                                                                                      | Mn Br <sub>2</sub> ·4H <sub>2</sub> O                               |
|      | 10034-96-5 | Manganese(II) sulfate heptahydrate                                                                                      | Mn(C <sub>2</sub> O <sub>4</sub> )·2H <sub>2</sub> O                |
|      | 10043-84-2 | Manganese hypophosphite                                                                                                 | Mn(PH <sub>2</sub> O <sub>2</sub> ) <sub>2</sub>                    |
|      | 10101-50-5 | Sodium permanganate                                                                                                     | NaMnO <sub>4</sub>                                                  |
|      | 10124-54-6 | Manganese(III) phosphate hydrate                                                                                        | MnPO <sub>4</sub> ·H <sub>2</sub> O                                 |
|      | 10170-69-1 | Dimanganese decacarbonyl                                                                                                | Mn <sub>2</sub> (CO) <sub>10</sub>                                  |
|      | 10377-66-9 | Manganese(II) nitrate                                                                                                   | Mn(NO <sub>3</sub> ) <sub>2</sub>                                   |
|      | 12005-95-7 | Manganese arsenide                                                                                                      | MnAs                                                                |
|      | 12032-78-9 | Manganese phosphide                                                                                                     | MnP                                                                 |
|      | 12032-86-9 | Manganese silicide                                                                                                      | MnSi                                                                |
|      | 12032-88-1 | Manganese telluride                                                                                                     | MnTe                                                                |
|      | 12427-38-2 | Maneb                                                                                                                   | C <sub>4</sub> H <sub>6</sub> MnN <sub>2</sub> S <sub>4</sub>       |
|      | 12777-96-7 | Manganese carbide                                                                                                       | Mn <sub>3</sub> C                                                   |
|      | 1313-13-9  | Manganese(IV) oxide                                                                                                     | MnO <sub>2</sub>                                                    |
|      | 1313-22-0  | Manganese monoselenide                                                                                                  | MnSe                                                                |
|      | 1317-34-6  | Manganese(III) oxide, 98%(assay); manganese trioxide                                                                    | Mn <sub>2</sub> O <sub>3</sub>                                      |
|      | 1317-35-7  | Manganomanganic oxide; manganese tetra oxide; trimanganese tetraoxide; manganese(II,III) oxide; manganese oxide(II,III) | Mn <sub>3</sub> O <sub>4</sub>                                      |
|      | 13224-08-3 | Manganese(II) sulfate                                                                                                   | MnSO <sub>4</sub>                                                   |
|      | 1344-43-0  | Manganese(II) oxide                                                                                                     | MnO                                                                 |
|      | 13446-03-2 | Manganese(II) bromide                                                                                                   | MnBr <sub>2</sub>                                                   |
|      | 13446-34-9 | Manganese(II) chloride tetrahydrate                                                                                     | MnCl <sub>2</sub> ·4H <sub>2</sub> O                                |
|      | 13566-22-8 | Ammonium manganese sulfate                                                                                              | Mn(NH <sub>4</sub> ) <sub>2</sub> (SO <sub>4</sub> )                |
|      | 13568-71-3 | Manganese(II) sulfite                                                                                                   | MnSO <sub>3</sub>                                                   |
|      | 14154-9-7  | Manganese(II) phosphate                                                                                                 | Mn <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>                     |
|      | 14284-89-0 | Acetylacetone manganese(III) salt;<br>Tris(2,4-pentanedionate)manganese;                                                | Mn(C <sub>5</sub> H <sub>7</sub> O <sub>2</sub> ) <sub>3</sub>      |

|      |                                                                            |                                                                                                                                              |                                                                         |
|------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
|      | 15364-94-0                                                                 | Manganese(II) perchlorate                                                                                                                    | $\text{Mn}(\text{ClO}_4)_2$                                             |
|      | 17141-63-8                                                                 | Manganese(II) nitrate hexahydrate                                                                                                            | $\text{Mn}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$                    |
|      | 18820-29-6                                                                 | Manganese sulfide                                                                                                                            | $\text{MnS}$                                                            |
|      | 598-62-9                                                                   | Manganese(II) carbonate                                                                                                                      | $\text{MnCO}_3$                                                         |
|      | 6156-78-1                                                                  | Manganese(II) acetate tetrahydrate                                                                                                           | $\text{Mn}(\text{CH}_3\text{COO})_2 \cdot 4\text{H}_2\text{O}$          |
|      | 638-38-0                                                                   | Manganese(II) acetate                                                                                                                        | $\text{Mn}(\text{CH}_3\text{COO})_2$                                    |
|      | 640-67-5                                                                   | Manganese oxalate                                                                                                                            | $\text{Mn}(\text{C}_2\text{O}_4)$                                       |
|      | 6556-16-7                                                                  | Manganese(II) oxalate dehydrate                                                                                                              | $\text{Mn}(\text{C}_2\text{O}_4) \cdot 2\text{H}_2\text{O}$             |
|      | 7722-64-7                                                                  | Potassium permanganate                                                                                                                       | $\text{KMnO}_4$                                                         |
|      | 7773-01-5                                                                  | Manganese(II) chloride;<br>Manganesedichloride                                                                                               | $\text{MnCl}_2$                                                         |
|      | 7782-64-1                                                                  | Manganese difluoride                                                                                                                         | $\text{MnF}_2$                                                          |
|      | 7782-76-5                                                                  | Manganese phosphate, dibasic                                                                                                                 | $\text{MnHPO}_4$                                                        |
|      | 7783-16-6                                                                  | Manganese(II) hypophosphite monohydrate                                                                                                      | $\text{Mn}(\text{PH}_2\text{O}_2)_2 \cdot \text{H}_2\text{O}$           |
|      | 7783-53-1                                                                  | Manganese(III) fluoride                                                                                                                      | $\text{MnF}_3$                                                          |
|      | 7790-33-2                                                                  | Manganese(II) iodide                                                                                                                         | $\text{MnI}_2$                                                          |
|      | 993-2-2                                                                    | Manganese(III) acetate                                                                                                                       | $\text{Mn}(\text{CH}_3\text{COO})_3$                                    |
|      | -                                                                          | Other manganese compounds                                                                                                                    | $\text{Mn}(\text{CH}_3\text{COO})_3$                                    |
| TB18 | -                                                                          | <b>Organic Tin Compounds</b> (except for TA7, TA8, TA36, TA43)                                                                               | -                                                                       |
| TB19 | 2551-62-4                                                                  | <b>Sulfur hexafluoride(SF6)</b>                                                                                                              | $\text{F}_6\text{S}$                                                    |
|      |                                                                            | <b>REACH SVHC in Candidate List</b>                                                                                                          |                                                                         |
|      | 101-77-9                                                                   | 4,4'- Diaminodiphenylmethane                                                                                                                 | $\text{C}_{13}\text{H}_{14}\text{N}_2$                                  |
|      | 81-15-2                                                                    | 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)                                                                                           | $\text{C}_{12}\text{H}_{15}\text{N}_3\text{O}_6$                        |
|      | 85535-84-8                                                                 | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)                                                                                  | $\text{C}_x\text{H}_{(2x-y+2)}\text{Cl}_y$<br>$x = 10-13$<br>$y = 1-13$ |
|      | 120-12-7                                                                   | Anthracene                                                                                                                                   | $\text{C}_{14}\text{H}_{10}$                                            |
|      | 85-68-7                                                                    | Benzyl butyl phthalate                                                                                                                       | $\text{C}_{19}\text{H}_{20}\text{O}_4$                                  |
|      | 117-81-7                                                                   | Bis (2-ethyl(hexyl)phthalate) (DEHP)                                                                                                         | $\text{C}_{24}\text{H}_{38}\text{O}_4$                                  |
|      | 56-35-9                                                                    | Bis(tributyltin)oxide                                                                                                                        | $\text{C}_{24}\text{H}_{54}\text{OSn}_2$                                |
|      | 7646-79-9                                                                  | Cobalt dichloride                                                                                                                            | $\text{CoCl}_2$                                                         |
|      | 1303-28-2                                                                  | Diarsenic pentaoxide                                                                                                                         | $\text{As}_2\text{O}_5$                                                 |
|      | 1327-53-3                                                                  | Diarsenic trioxide                                                                                                                           | $\text{As}_2\text{O}_3$                                                 |
|      | 84-74-2                                                                    | Dibutyl phthalate                                                                                                                            | $\text{C}_{16}\text{H}_{22}\text{O}_4$                                  |
|      | 25637-99-4<br>3194-55-6<br>(134237-50-6)<br>(134237-51-7)<br>(134237-52-8) | Hexabromocyclododecane (HBCDD) and<br>all major diastereoisomers identified<br>( $\alpha$ -HBCDD)<br>( $\beta$ -HBCDD)<br>( $\gamma$ -HBCDD) | $\text{C}_{12}\text{H}_{18}\text{Br}_6$                                 |
| TB20 | 7784-40-9                                                                  | Lead hydrogen arsenate                                                                                                                       | $\text{PbHAsO}_4$                                                       |
|      | 7789-12-0                                                                  | Sodium dichromate, dehydrate                                                                                                                 | $\text{Na}_2\text{Cr}_2\text{O}_7$                                      |
|      | 15606-95-8                                                                 | Triethyl arsenate                                                                                                                            | $\text{C}_6\text{H}_{15}\text{O}_4\text{As}$                            |
|      | 121-14-2                                                                   | 2,4-Dinitrotoluene                                                                                                                           | $\text{C}_7\text{H}_6\text{N}_2\text{O}_4$                              |
|      |                                                                            | Aluminosilicate, Refractory Ceramic Fibres                                                                                                   |                                                                         |
|      | 90640-80-5                                                                 | Anthracene oil                                                                                                                               |                                                                         |
|      | 90640-82-7                                                                 | Anthracene oil, anthracene-low                                                                                                               |                                                                         |
|      | 90640-81-6                                                                 | Anthracene oil, anthracene paste                                                                                                             |                                                                         |
|      | 91995-15-2                                                                 | Anthracene oil, anthracene paste, anthracene fraction                                                                                        |                                                                         |
|      | 91995-17-4                                                                 | Anthracene oil, anthracene paste, distn. Lights                                                                                              |                                                                         |
|      | 84-69-5                                                                    | Diisobutyl phthalate                                                                                                                         | $\text{C}_5\text{H}_9\text{O}_2$                                        |
|      | 7758-97-6                                                                  | Lead chromate                                                                                                                                | $\text{PbCrO}_4$                                                        |
|      | 12656-85-8                                                                 | Lead chromate molybdate sulfate red (C.I. Pigment Red 104)                                                                                   | $\text{PbCrO}_4$                                                        |
|      | 1344-37-2                                                                  | Lead sulfochromate yellow (C.I. Pigment Yellow 34)                                                                                           | $\text{PbCrO}_4$                                                        |
|      | 65996-93-2                                                                 | Coal tar pitch, high temperature                                                                                                             |                                                                         |
|      | 115-96-8                                                                   | Tris(2-chloroethyl)phosphate                                                                                                                 | $\text{C}_6\text{H}_{12}\text{Cl}_3\text{O}_4\text{P}$                  |
|      |                                                                            | Zirconia Aluminosilicate, Refractory Ceramic Fibres                                                                                          |                                                                         |
|      | 79-06-1                                                                    | Acrylamide                                                                                                                                   | $\text{C}_3\text{H}_5\text{NO}$                                         |

|                                      |                                                                            |                                                                    |
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| 79-01-6                              | Trichloroethylene                                                          | $C_2HCl_3$                                                         |
| 10043-35-3<br>11113-50-1             | Boric acid                                                                 | $BH_3O_3$                                                          |
| 1303-96-4<br>1330-43-4<br>12179-04-3 | Disodium tetraborate, anhydrous                                            | $B_4O_7Na_2 \cdot 10H_2O$<br>$B_4Na_2O_7$<br>$B_4H_{10}Na_2O_{12}$ |
| 12267-73-1                           | Tetraboron disodium heptaoxide, hydrate                                    | $B_4Na_2O_7 \cdot xH_2O$                                           |
| 7778-50-9                            | Potassium dichromate                                                       | $Cr_2K_2O_7$                                                       |
| 7789-9-5                             | Ammonium dichromate                                                        | $Cr_2H_8N_2O_7$                                                    |
| 7789-00-6                            | Potassium chromate                                                         | $CrK_2O_4$                                                         |
| 7775-11-3                            | Sodium chromate                                                            | $CrNa_2O_4$                                                        |
| 10124-43-3                           | Cobalt(II) sulphate                                                        | $CoSO_4$                                                           |
| 10141-05-6                           | Cobalt(II) dinitrate                                                       | $CoN_2O_6$                                                         |
| 513-79-1                             | Cobalt(II) carbonate                                                       | $CoCO_3$                                                           |
| 71-48-7                              | Cobalt(II) diacetate                                                       | $C_4H_6CoO_4$                                                      |
| 109-86-4                             | 2-Methoxyethanol                                                           | $C_3H_8O_2$                                                        |
| 110-80-5                             | 2-Ethoxyethanol                                                            | $C_4H_{10}O_2$                                                     |
| 1333-82-0                            | Chromium trioxide                                                          | $CrO_3$                                                            |
|                                      | Acids generated from chromium trioxide and their oligomers                 |                                                                    |
|                                      | Group containing:                                                          |                                                                    |
| 7738-94-5                            | Chromic acid                                                               | $CRH_2O_4$                                                         |
| -                                    | Dichromic acid                                                             | -                                                                  |
| 13530-68-2                           | Oligomers of chromic acid and dichromic acid                               | $CR_2H_2O_7$                                                       |
| 111-15-9                             | 2-ethoxyethyl acetate                                                      | $C_6H_{12}O_3$                                                     |
| 7789-06-2                            | strontium chromate                                                         | $CrO_4Sr$                                                          |
| 68515-42-4                           | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters    | -                                                                  |
| 7803-57-8                            |                                                                            |                                                                    |
| 302-01-2                             | Hydrazine                                                                  | $H_4N_2$                                                           |
| 872-50-4                             | 1-methyl-2-pyrrolidone                                                     | $C_5H_9NO$                                                         |
| 96-18-4                              | 1,2,3-trichloropropane                                                     | $C_3H_5Cl_3$                                                       |
| 71888-89-6                           | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich       | -                                                                  |
| 6477-64-1                            | Lead dipicrate                                                             | $C_{12}H_4N_6O_{14}Pb$                                             |
| 15245-44-0                           | Lead styphnate                                                             | $C_6HN_3O_8Pb$                                                     |
| 13424-46-9                           | Lead diazide; Lead azide                                                   | $N_6Pb$                                                            |
| 77-09-8                              | Phenolphthalein                                                            | $C_{20}H_{14}O_4$                                                  |
| 101-14-4                             | 2,2'-dichloro-4,4'-methylenedianiline (MOCA)                               | $C_{13}H_{12}Cl_2N_2$                                              |
| 127-19-5                             | N,N-dimethylacetamide (DMAC)                                               | $C_4H_9NO$                                                         |
| 3687-31-8                            | Trilead diarsenate                                                         | $As_2O_8Pb_3$                                                      |
| 7778-44-1                            | Calcium arsenate                                                           | $As_2Ca_3O_8$                                                      |
| 7778-39-4                            | Arsenic acid                                                               | $AsH_3O_4$                                                         |
| 111-96-6                             | Bis(2-methoxyethyl) ether                                                  | $C_6H_{14}O_3$                                                     |
| 107-06-2                             | 1,2-Dichloroethane; ethylene dichloride                                    | $C_2H_4Cl_2$                                                       |
| 140-66-9                             | 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)                   | $C_{14}H_{22}O$                                                    |
| 90-04-0                              | 2-Methoxyaniline; o-Anisidine                                              | $C_7H_9NO$                                                         |
| 117-82-8                             | Bis(2-methoxyethyl) phthalate                                              | $C_{14}H_{18}O_6$                                                  |
| 25214-70-4                           | Formaldehyde, oligomeric reaction products with aniline (technical MDA)    | $(C_6H_7N \cdot CH_2O)_x$                                          |
| 11103-86-9                           | Potassium hydroxyoctaoxodizincatedichromate                                | $Cr_2HKO_9Zn_2$                                                    |
| 49663-84-5                           | Pentazinc chromate octahydroxide                                           | $CrH_8O_{12}Zn_5$                                                  |
| 24613-89-6                           | Dichromium tris(chromate)                                                  | $Cr_5O_{12}$                                                       |
| 112-49-2                             | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)                          | $C_8H_{18}O_4$                                                     |
| 110-71-4                             | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)                | $C_4H_{10}O_2$                                                     |
| 1303-86-2                            | Diboron trioxide                                                           | $B_2O_3$                                                           |
| 75-12-7                              | Formamide                                                                  | $CH_3NO$                                                           |
| 17570-76-2                           | Lead(II) bis(methanesulfonate)                                             | $C_2H_6O_6PbS_2$                                                   |
| 2451-62-9                            | TGIC<br>(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) | $C_{12}H_{15}N_3O_6$                                               |

|                                                         |                                                                                                                                                                                                                                                                                   |                                                                                  |
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| 59653-74-6                                              | $\beta$ -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)                                                                                                                                                                                    | -                                                                                |
| 90-94-8                                                 | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)                                                                                                                                                                                                                            | C <sub>17</sub> H <sub>20</sub> N <sub>2</sub> O                                 |
| 101-61-1                                                | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)                                                                                                                                                                                                                    | C <sub>17</sub> H <sub>22</sub> N <sub>2</sub>                                   |
| 548-62-9                                                | [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)                                                                                                                                                           | C <sub>25</sub> H <sub>30</sub> N <sub>3</sub> .Cl                               |
| 2580-56-5                                               | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)                                                                                                                                         | C <sub>33</sub> H <sub>32</sub> N <sub>3</sub> .Cl                               |
| 6786-83-0                                               | $\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)                                                                                                                                                                         | C <sub>33</sub> H <sub>33</sub> N <sub>3</sub> O                                 |
| 561-41-1                                                | 4,4'-bis(dimethylamino)-4''-(methylamino)trity                                                                                                                                                                                                                                    | C <sub>24</sub> H <sub>29</sub> N <sub>3</sub> O                                 |
| 1163-19-5                                               | Bis(pentabromophenyl) ether (DecaBDE)                                                                                                                                                                                                                                             | C <sub>12</sub> Br <sub>10</sub> O                                               |
| 72629-94-8                                              | Pentacosafuorotridecanoic acid                                                                                                                                                                                                                                                    | C <sub>13</sub> HF <sub>25</sub> O <sub>2</sub>                                  |
| 307-55-1                                                | Tricosafuorododecanoic acid                                                                                                                                                                                                                                                       | C <sub>12</sub> HF <sub>23</sub> O <sub>2</sub>                                  |
| 2058-94-8                                               | Henicosafuoroundecanoic acid                                                                                                                                                                                                                                                      | C <sub>11</sub> HF <sub>21</sub> O <sub>2</sub>                                  |
| 376-06-7                                                | Heptacosafuorotetradecanoic acid                                                                                                                                                                                                                                                  | C <sub>14</sub> HF <sub>27</sub> O <sub>2</sub>                                  |
| -                                                       | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues                                                                                                                                                    | (C <sub>2</sub> H <sub>4</sub> O) <sub>n</sub> C <sub>14</sub> H <sub>22</sub> O |
| -                                                       | 4-Nonylphenol, branched and linear -substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof | C <sub>15</sub> H <sub>24</sub> O                                                |
| 123-77-3                                                | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))                                                                                                                                                                                                                                 | C <sub>2</sub> H <sub>4</sub> N <sub>4</sub> O <sub>2</sub>                      |
| 85-42-7,<br>13149-00-3,<br>14166-21-3                   | Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)                                                                                                                                                                                                       | C <sub>8</sub> H <sub>10</sub> O <sub>3</sub>                                    |
| 25550-51-0,<br>19438-60-9,<br>48122-14-1,<br>57110-29-9 | Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride                                                                                                                               | C <sub>9</sub> H <sub>12</sub> O <sub>3</sub>                                    |
| 625-45-6                                                | Methoxy acetic acid                                                                                                                                                                                                                                                               | C <sub>3</sub> H <sub>6</sub> O <sub>3</sub>                                     |
| 84777-06-0                                              | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear                                                                                                                                                                                                                  | C <sub>18</sub> H <sub>24</sub> O <sub>4</sub> -2                                |
| 605-50-5                                                | Diisopentylphthalate (DIPP)                                                                                                                                                                                                                                                       | C <sub>13</sub> H <sub>16</sub> O <sub>4</sub>                                   |
| 776297-69-9                                             | N-pentyl-isopentylphthalate                                                                                                                                                                                                                                                       | C <sub>18</sub> H <sub>26</sub> O <sub>4</sub>                                   |
| 629-14-1                                                | 1,2-Diethoxyethane                                                                                                                                                                                                                                                                | C <sub>6</sub> H <sub>14</sub> O <sub>2</sub>                                    |
| 68-12-2                                                 | N,N-dimethylformamide; dimethyl formamide                                                                                                                                                                                                                                         | C <sub>3</sub> H <sub>7</sub> NO                                                 |
| 683-18-1                                                | Dibutyltin dichloride (DBT)                                                                                                                                                                                                                                                       | C <sub>8</sub> H <sub>18</sub> Cl <sub>2</sub> Sn                                |
| 51404-69-4                                              | Acetic acid, lead salt, basic                                                                                                                                                                                                                                                     | C <sub>2</sub> H <sub>4</sub> O <sub>3</sub> Pb                                  |
| 1319-46-6                                               | Basic lead carbonate (trilead bis(carbonate)dihydroxide)                                                                                                                                                                                                                          | C <sub>2</sub> H <sub>2</sub> O <sub>8</sub> Pb <sub>3</sub>                     |
| 12036-76-9                                              | Lead oxide sulfate (basic lead sulfate)                                                                                                                                                                                                                                           | O <sub>5</sub> Pb <sub>2</sub> S                                                 |
| 69011-06-9                                              | [Phthalato(2-)]dioxotrilead (dibasic lead phthalate)                                                                                                                                                                                                                              | C <sub>8</sub> H <sub>4</sub> O <sub>6</sub> Pb <sub>3</sub>                     |
| 12578-12-0                                              | Dioxobis(stearato)trilead                                                                                                                                                                                                                                                         | C <sub>36</sub> H <sub>70</sub> O <sub>6</sub> Pb <sub>3</sub>                   |
| 91031-62-8                                              | Fatty acids, C16-18, lead salts                                                                                                                                                                                                                                                   | -                                                                                |
| 13814-96-5                                              | Lead bis(tetrafluoroborate)                                                                                                                                                                                                                                                       | B <sub>2</sub> F <sub>8</sub> Pb                                                 |
| 20837-86-9                                              | Lead cyanamate                                                                                                                                                                                                                                                                    | CH <sub>2</sub> N <sub>2</sub> Pb                                                |
| 10099-74-8                                              | Lead dinitrate                                                                                                                                                                                                                                                                    | N <sub>2</sub> O <sub>6</sub> Pb                                                 |
| 1317-36-8                                               | Lead oxide (lead monoxide)                                                                                                                                                                                                                                                        | OPb                                                                              |
| 1314-41-6                                               | Lead tetroxide (orange lead)                                                                                                                                                                                                                                                      | O <sub>4</sub> Pb <sub>3</sub>                                                   |
| 12060-00-3                                              | Lead titanium trioxide                                                                                                                                                                                                                                                            | O <sub>3</sub> PbTi                                                              |
| 12626-81-2                                              | Lead Titanium Zirconium Oxide                                                                                                                                                                                                                                                     | -                                                                                |
| 12065-90-6                                              | Pentalead tetraoxide sulphate                                                                                                                                                                                                                                                     | O <sub>8</sub> Pb <sub>5</sub> S                                                 |
| 8012-00-8                                               | Pyrochlore, antimony lead yellow                                                                                                                                                                                                                                                  | -                                                                                |
| 68784-75-8                                              | Silicic acid, barium salt, lead-doped                                                                                                                                                                                                                                             | -                                                                                |
| 11120-22-2                                              | Silicic acid, lead salt                                                                                                                                                                                                                                                           | O <sub>3</sub> PbSi                                                              |

|  |                        |                                                                                                                                                                                                                                                                                                                                     |                                                                                              |
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|  | 62229-08-7             | Sulfurous acid, lead salt, dibasic                                                                                                                                                                                                                                                                                                  | H <sub>2</sub> O <sub>5</sub> Pb <sub>2</sub> S                                              |
|  | 78-00-2                | Tetraethyllead                                                                                                                                                                                                                                                                                                                      | C <sub>8</sub> H <sub>20</sub> Pb                                                            |
|  | 12202-17-4             | Tetralead trioxide sulphate                                                                                                                                                                                                                                                                                                         | O <sub>7</sub> Pb <sub>4</sub> S                                                             |
|  | 12141-20-7             | Trilead dioxide phosphonate                                                                                                                                                                                                                                                                                                         | HO <sub>5</sub> PPb <sub>3</sub>                                                             |
|  | 110-00-9               | Furan                                                                                                                                                                                                                                                                                                                               | C <sub>4</sub> H <sub>4</sub> O                                                              |
|  | 75-56-9                | Propylene oxide; 1,2-epoxypropane; methyloxirane                                                                                                                                                                                                                                                                                    | C <sub>3</sub> H <sub>6</sub> O                                                              |
|  | 64-67-5                | Diethyl sulphate                                                                                                                                                                                                                                                                                                                    | C <sub>4</sub> H <sub>10</sub> O <sub>4</sub> S                                              |
|  | 77-78-1                | Dimethyl sulphate                                                                                                                                                                                                                                                                                                                   | C <sub>2</sub> H <sub>6</sub> O <sub>4</sub> S                                               |
|  | 143860-04-2            | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine                                                                                                                                                                                                                                                                                  | C <sub>11</sub> H <sub>23</sub> NO                                                           |
|  | 88-85-7                | Dinoseb                                                                                                                                                                                                                                                                                                                             | C <sub>10</sub> H <sub>12</sub> N <sub>2</sub> O <sub>5</sub>                                |
|  | 838-88-0               | 4,4'-methylenedi-o-toluidine                                                                                                                                                                                                                                                                                                        | C <sub>15</sub> H <sub>18</sub> N <sub>2</sub>                                               |
|  | 101-80-4               | 4,4'-oxydianiline and its salts                                                                                                                                                                                                                                                                                                     | C <sub>12</sub> H <sub>12</sub> N <sub>2</sub> O                                             |
|  | 60-09-3                | 4-Aminoazobenzene; 4-Phenylazoaniline                                                                                                                                                                                                                                                                                               | C <sub>12</sub> H <sub>11</sub> N <sub>3</sub>                                               |
|  | 95-80-7                | 4-methyl-m-phenylenediamine (2,4-toluene-diamine)                                                                                                                                                                                                                                                                                   | C <sub>7</sub> H <sub>10</sub> N <sub>2</sub>                                                |
|  | 120-71-8               | 6-methoxy-m-toluidine (p-cresidine)                                                                                                                                                                                                                                                                                                 | C <sub>8</sub> H <sub>11</sub> NO                                                            |
|  | 92-67-1                | Biphenyl-4-ylamine                                                                                                                                                                                                                                                                                                                  | C <sub>12</sub> H <sub>11</sub> N                                                            |
|  | 97-56-3                | o-aminoazotoluene                                                                                                                                                                                                                                                                                                                   | C <sub>14</sub> H <sub>15</sub> N <sub>3</sub>                                               |
|  | 95-53-4                | o-Toluidine; 2-Aminotoluene                                                                                                                                                                                                                                                                                                         | C <sub>7</sub> H <sub>9</sub> N                                                              |
|  | 79-16-3                | N-methylacetamide                                                                                                                                                                                                                                                                                                                   | C <sub>3</sub> H <sub>7</sub> NO                                                             |
|  | 106-94-5               | 1-bromopropane; n-propyl bromide                                                                                                                                                                                                                                                                                                    | C <sub>3</sub> H <sub>7</sub> Br                                                             |
|  | 7440-43-9              | Cadmium                                                                                                                                                                                                                                                                                                                             | Cd                                                                                           |
|  | 1306-19-0              | Cadmium oxide                                                                                                                                                                                                                                                                                                                       | CdO                                                                                          |
|  | 131-18-0               | Dipentyl phthalate (DPP)                                                                                                                                                                                                                                                                                                            | C <sub>18</sub> H <sub>26</sub> O <sub>4</sub>                                               |
|  |                        | 4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof] | (C <sub>2</sub> H <sub>4</sub> O) <sub>n</sub> C <sub>15</sub> H <sub>24</sub> O             |
|  | 3825-26-1              | Ammonium pentadecafluorooctanoate (APFO)                                                                                                                                                                                                                                                                                            | C <sub>8</sub> H <sub>4</sub> F <sub>15</sub> NO <sub>2</sub>                                |
|  | 335-67-1               | Pentadecafluorooctanoic acid (PFOA)                                                                                                                                                                                                                                                                                                 | C <sub>8</sub> HF <sub>15</sub> O <sub>2</sub>                                               |
|  | 1306-23-6              | Cadmium sulphide                                                                                                                                                                                                                                                                                                                    | -                                                                                            |
|  | 573-58-0               | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)                                                                                                                                                                                                                          | C <sub>32</sub> H <sub>22</sub> N <sub>6</sub> Na <sub>2</sub> O <sub>6</sub> S <sub>2</sub> |
|  | 1937-37-7              | Disodium 4-amino-3'-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)                                                                                                                                                                               | C <sub>34</sub> H <sub>25</sub> N <sub>9</sub> Na <sub>2</sub> O <sub>7</sub> S <sub>2</sub> |
|  | 84-75-3                | Diethyl phthalate                                                                                                                                                                                                                                                                                                                   | C <sub>20</sub> H <sub>30</sub> O <sub>4</sub>                                               |
|  | 96-45-7                | Imidazolidine-2-thione; 2-imidazoline-2-thiol                                                                                                                                                                                                                                                                                       | C <sub>3</sub> H <sub>6</sub> N <sub>2</sub> S                                               |
|  | 301-04-2               | Lead di(acetate)                                                                                                                                                                                                                                                                                                                    | Pb(OCOCH <sub>3</sub> ) <sub>2</sub>                                                         |
|  | 25155-23-1             | Trixylyl phosphate                                                                                                                                                                                                                                                                                                                  | C <sub>24</sub> H <sub>27</sub> O <sub>4</sub> P                                             |
|  | 10108-64-2             | Cadmium chloride                                                                                                                                                                                                                                                                                                                    | CdCl <sub>2</sub>                                                                            |
|  | 68515-50-4             | 1,2-Benzenedicarboxylic acid, diethyl ester, branched and linear                                                                                                                                                                                                                                                                    | C <sub>20</sub> H <sub>30</sub> O <sub>4</sub>                                               |
|  | 7632-04-4              | Sodium peroxometaborate                                                                                                                                                                                                                                                                                                             | BNaO <sub>3</sub>                                                                            |
|  | -                      | Sodium perborate; perboric acid, sodium salt                                                                                                                                                                                                                                                                                        | -                                                                                            |
|  | 7790-79-6              | Cadmium fluoride                                                                                                                                                                                                                                                                                                                    | CdF <sub>2</sub>                                                                             |
|  | 10124-36-4, 31119-53-6 | Cadmium sulphate                                                                                                                                                                                                                                                                                                                    | CdO <sub>4</sub> S                                                                           |
|  | 3846-71-7              | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)                                                                                                                                                                                                                                                                                | C <sub>20</sub> H <sub>25</sub> N <sub>3</sub> O                                             |
|  | 25973-55-1             | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)                                                                                                                                                                                                                                                                            | C <sub>22</sub> H <sub>29</sub> N <sub>3</sub> O                                             |
|  | 15571-58-1             | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)                                                                                                                                                                                                                                              | C <sub>36</sub> H <sub>72</sub> O <sub>4</sub> S <sub>2</sub> Sn                             |
|  | -                      | reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl                                                                                                                                                                                                                   | -                                                                                            |

|                                     |  |                                                                                                                                                                                                                                                                                                   |                                                                |
|-------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|                                     |  | 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)                                                                                                                                                        |                                                                |
| 68515-51-5<br>68648-93-1            |  | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters;<br>1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)                                                                                                          | -                                                              |
|                                     |  | 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1],<br>5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]                                                      | -                                                              |
| 98-95-3                             |  | Nitrobenzene                                                                                                                                                                                                                                                                                      |                                                                |
| 3864-99-1                           |  | 2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)                                                                                                                                                                                                                                    |                                                                |
| 36437-37-3                          |  | 2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)                                                                                                                                                                                                                              |                                                                |
| 1120- 71-4                          |  | 1,3-Propanesultone                                                                                                                                                                                                                                                                                |                                                                |
| 375-95-1<br>21049-39-8<br>4149-60-4 |  | Perfluorononan-1-oic-acid and its sodium and ammonium saltspropanesultone                                                                                                                                                                                                                         |                                                                |
| 50-32-8                             |  | Benzo[def]chrysene (Benzo[a]pyrene)                                                                                                                                                                                                                                                               | C <sub>20</sub> H <sub>12</sub>                                |
| 80-05-7                             |  | 4,4'-isopropylidenediphenol (bisphenol A; BPA)                                                                                                                                                                                                                                                    |                                                                |
| 335-76-2<br>3830-45-3<br>3108-42-7  |  | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts                                                                                                                                                                                                                              |                                                                |
| 80-46-6                             |  | p-(1,1-dimethylpropyl)phenol                                                                                                                                                                                                                                                                      |                                                                |
| —                                   |  | 4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] |                                                                |
| -                                   |  | perfluorohexane-1-sulphonic acid and its salts (PFHxS)                                                                                                                                                                                                                                            |                                                                |
| 56-55-3<br>1718-53-2                |  | Benz[a]anthracene                                                                                                                                                                                                                                                                                 |                                                                |
| 513-78-0                            |  | Cadmium carbonate                                                                                                                                                                                                                                                                                 |                                                                |
| 21041-95-2                          |  | Cadmium hydroxide                                                                                                                                                                                                                                                                                 |                                                                |
| 10022-68-1<br>10325-94-7            |  | Cadmium nitrate                                                                                                                                                                                                                                                                                   |                                                                |
| 218-01-9<br>1719-03-5               |  | Chrysene                                                                                                                                                                                                                                                                                          | C <sub>18</sub> H <sub>12</sub>                                |
| -                                   |  | Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> ) covering any of its individual anti- and syn-isomers or any combination thereof                                                                                                             |                                                                |
| -                                   |  | Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear (4-HPbl)                                                                                                          |                                                                |
| 552-30-7                            |  | Benzene-1,2,4-tricarboxylic acid 1,2 anhydride trimellitic anhydride; TMA                                                                                                                                                                                                                         | C <sub>9</sub> H <sub>4</sub> O <sub>5</sub>                   |
| 191-24-2                            |  | Benzo[ghi]perylene                                                                                                                                                                                                                                                                                | C <sub>22</sub> H <sub>12</sub>                                |
| 541-02-6                            |  | Decamethylcyclopentasiloxane (D5)                                                                                                                                                                                                                                                                 | C <sub>10</sub> H <sub>30</sub> O <sub>5</sub> Si <sub>5</sub> |
| 84-61-7                             |  | Dicyclohexyl phthalate (DCHP)                                                                                                                                                                                                                                                                     | C <sub>20</sub> H <sub>26</sub> O <sub>4</sub>                 |
| 12008-41-2                          |  | Disodium octaborate                                                                                                                                                                                                                                                                               | B <sub>8</sub> H <sub>8</sub> Na <sub>2</sub> O <sub>17</sub>  |
| 540-97-6                            |  | Dodecamethylcyclotetrasiloxane (D6)                                                                                                                                                                                                                                                               | C <sub>12</sub> H <sub>36</sub> O <sub>6</sub> Si <sub>6</sub> |
| 107-15-3                            |  | Ethylenediamine (EDA)                                                                                                                                                                                                                                                                             | C <sub>2</sub> H <sub>8</sub> N <sub>2</sub>                   |
| 7439-92-1                           |  | Lead                                                                                                                                                                                                                                                                                              | Pb                                                             |
| 556-67-2                            |  | Octamethylcyclotetrasiloxane (D4)                                                                                                                                                                                                                                                                 | C <sub>8</sub> H <sub>24</sub> O <sub>4</sub> Si <sub>4</sub>  |
| 61788-32-7                          |  | Terphenyl, hydrogenated                                                                                                                                                                                                                                                                           | C <sub>18</sub> H <sub>22</sub>                                |

|      |                                                 |                                                                                                                                                                                                                  |                                                |
|------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
|      | 15087-24-8                                      | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one<br>3-benzylidene camphor; 3-BC                                                                                                                     | C <sub>17</sub> H <sub>20</sub> O              |
|      | 6807-17-6                                       | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane                                                                                                                                                                        | C <sub>18</sub> H <sub>22</sub> O <sub>2</sub> |
|      | 207-08-9                                        | Benzo[k]fluoranthene                                                                                                                                                                                             | C <sub>20</sub> H <sub>12</sub>                |
|      | 206-44-0<br>93951-69-0                          | Fluoranthene                                                                                                                                                                                                     | C <sub>16</sub> H <sub>10</sub>                |
|      | 85-01-8                                         | Phenanthrene                                                                                                                                                                                                     | C <sub>14</sub> H <sub>10</sub>                |
|      | 129-00-0<br>1718-52-1                           | Pyrene                                                                                                                                                                                                           | C <sub>16</sub> H <sub>10</sub>                |
|      | -                                               | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts<br>and its acyl halides covering any of their individual isomers and<br>combinations thereof                                                 | -                                              |
|      | 110-49-6                                        | 2-methoxyethyl acetate                                                                                                                                                                                           | -                                              |
|      | 98-54-4                                         | 4-tert-butylphenol                                                                                                                                                                                               | -                                              |
|      | -                                               | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥<br>0.1% w/w of 4-nonylphenol, branched and linear (4-NP)                                                                                        | -                                              |
|      | -                                               | Perfluorobutane sulfonic acid (PFBS) and its salts                                                                                                                                                               | -                                              |
|      | 71850-09-4                                      | Diisohexyl phthalate                                                                                                                                                                                             |                                                |
|      | 71868-10-5                                      | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one                                                                                                                                                         |                                                |
|      | 119313-12-1                                     | 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone                                                                                                                                                              |                                                |
|      | 22673-19-4                                      | Dibutylbis(pentane-2,4-dionato-O,O')tin                                                                                                                                                                          |                                                |
|      | 94-26-8                                         | Butyl 4-hydroxybenzoate                                                                                                                                                                                          |                                                |
|      | 693-98-1                                        | 2-methylimidazole                                                                                                                                                                                                |                                                |
|      | 1072-63-5                                       | 1-vinylimidazole                                                                                                                                                                                                 |                                                |
|      | 143-24-8                                        | Bis(2-(2-methoxyethoxy)ethyl)ether                                                                                                                                                                               |                                                |
|      | -                                               | Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs.,<br>and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein<br>C12 is the predominant carbon number of the fatty acyloxy moiety |                                                |
|      | -                                               | 2-(4-tert-butylbenzyl)propionaldehyde and its individual<br>stereoisomers                                                                                                                                        |                                                |
|      | 13840-56-7                                      | Orthoboric acid, sodium salt                                                                                                                                                                                     |                                                |
|      | 3296-90-0<br>36483-57-5<br>1522-92-5<br>96-13-9 | 2,2-bis(bromomethyl)propane-1,3-diol (BMP);<br>2,2-dimethylpropan-1-ol, tribromo<br>derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA);<br>2,3-dibromo-1-propanol (2,3-DBPA)                             |                                                |
|      | 111-30-8                                        | Glutaral                                                                                                                                                                                                         |                                                |
|      | -                                               | Medium-chain chlorinated paraffins (MCCP)<br>(UVCB substances consisting of more than or equal to 80% linear<br>chloroalkanes with carbon chain lengths within the range from C14<br>to C17)                     |                                                |
|      | -                                               | Phenol, alkylation products (mainly in para position) with C12-rich<br>branched alkyl chains from oligomerisation, covering any individual<br>isomers and/ or combinations thereof (PDDP)                        |                                                |
|      | 123-91-1                                        | 1,4-dioxane                                                                                                                                                                                                      |                                                |
|      | 77-40-7                                         | 4,4'-(1-methylpropylidene)bisphenol                                                                                                                                                                              |                                                |
| TB21 |                                                 | <b>Proposition 65 List of Chemicals</b>                                                                                                                                                                          | -                                              |
| TB22 |                                                 | <b>(deleted)</b>                                                                                                                                                                                                 |                                                |
|      |                                                 | <b>Polycyclic Aromatic Hydrocarbon (PAH)</b>                                                                                                                                                                     |                                                |
| TB23 | 218-01-9                                        | Chrysene (CHY)                                                                                                                                                                                                   | C <sub>18</sub> H <sub>12</sub>                |
|      | 56-55-3                                         | Benzo(a)anthracene (BAA)                                                                                                                                                                                         | C <sub>18</sub> H <sub>12</sub>                |
|      | 205-99-2                                        | Benzo(b)fluoranthene (BBF)                                                                                                                                                                                       | C <sub>20</sub> H <sub>12</sub>                |
|      | 205-82-3                                        | Benzo(j)fluoranthene (BJF)                                                                                                                                                                                       | C <sub>20</sub> H <sub>12</sub>                |
|      | 207-08-9                                        | Benzo(k)fluoranthene (BKF)                                                                                                                                                                                       | C <sub>20</sub> H <sub>12</sub>                |

|      |             |                                                                                                      |                                                               |
|------|-------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
|      | 192-97-2    | Benzo(e)pyrene (BEP)                                                                                 | C <sub>20</sub> H <sub>12</sub>                               |
|      | 50-32-8     | Benzo(a)pyrene (BAP)                                                                                 | C <sub>20</sub> H <sub>12</sub>                               |
|      | 53-70-3     | Dibenz(a,h)anthracene (DBA)                                                                          | C <sub>20</sub> H <sub>12</sub>                               |
|      | 91-20-3     | Naphthalene (NAP)                                                                                    | C <sub>10</sub> H <sub>8</sub>                                |
|      | 208-96-8    | Acenaphthylene (ACL)                                                                                 | C <sub>12</sub> H <sub>8</sub>                                |
|      | 83-32-9     | Acenaphthene (CAN)                                                                                   | C <sub>12</sub> H <sub>10</sub>                               |
|      | 86-73-7     | Fluorene (FLR)                                                                                       | C <sub>13</sub> H <sub>10</sub>                               |
|      | 85-01-8     | Phenanthrene (PHN)                                                                                   | C <sub>14</sub> H <sub>10</sub>                               |
|      | 120-12-7    | Anthracene (ANT)                                                                                     | C <sub>14</sub> H <sub>10</sub>                               |
|      | 206-44-0    | Fluoranthene (FLT)                                                                                   | C <sub>16</sub> H <sub>10</sub>                               |
|      | 129-00-0    | Pyrene (PYR)                                                                                         | C <sub>16</sub> H <sub>10</sub>                               |
|      | 193-39-5    | Indeno[1,2,3-c,d] pyrene (ICP)                                                                       | C <sub>22</sub> H <sub>12</sub>                               |
|      | 191-24-2    | Benzo[g,h,i]perylene (BGP)                                                                           | C <sub>22</sub> H <sub>12</sub>                               |
|      |             | <b>PFCAs</b>                                                                                         |                                                               |
|      | 76-05-1     | Trifluoroacetic acid (TFA)                                                                           | C <sub>2</sub> HF <sub>3</sub> O <sub>2</sub>                 |
|      | 422-64-0    | Perfluoropropionic acid (PFPrA)                                                                      | C <sub>3</sub> HF <sub>5</sub> O <sub>2</sub>                 |
|      | 375-22-4    | Perfluorobutanoic acid (PFBA)                                                                        | C <sub>4</sub> HF <sub>7</sub> O <sub>2</sub>                 |
|      | 2706-90-3   | Perfluoropentanoic acid (PFPeA)                                                                      | C <sub>5</sub> HF <sub>9</sub> O <sub>2</sub>                 |
|      | 307-24-4    | Perfluorohexanoic acid (PFHxA)                                                                       | C <sub>6</sub> HF <sub>11</sub> O <sub>2</sub>                |
|      | 375-85-9    | Perfluoroheptanoic acid (PFHpA)                                                                      | C <sub>7</sub> HF <sub>13</sub> O <sub>2</sub>                |
| TB24 | 375-95-1    | Perfluorononanoic acid (PFNA)                                                                        | C <sub>9</sub> HF <sub>17</sub> O <sub>2</sub>                |
|      | 335-76-2    | Perfluorodecanoic acid (PFDA)                                                                        | C <sub>10</sub> HF <sub>19</sub> O <sub>2</sub>               |
|      | 2058-94-8   | Perfluoroundecanoic acid (PFUnDA)                                                                    | C <sub>11</sub> HF <sub>21</sub> O <sub>2</sub>               |
|      | 307-55-1    | Perfluorododecanoic acid (PFDoDA)                                                                    | C <sub>12</sub> HF <sub>23</sub> O <sub>2</sub>               |
|      | 72629-94-8  | Perfluorotridecanoic acid (PFTrDA)                                                                   | C <sub>13</sub> HF <sub>25</sub> O <sub>2</sub>               |
|      | 376-06-7    | Perfluorotetradecanoic acid (PFTeDA)                                                                 | C <sub>14</sub> HF <sub>27</sub> O <sub>2</sub>               |
|      | 67905-19-5  | Perfluorohexadecanoic acid (PFHxDA)                                                                  | C <sub>16</sub> HF <sub>31</sub> O <sub>2</sub>               |
|      | 16517-11-6  | Perfluorooctadecanoic acid (PFOcDA)                                                                  | C <sub>18</sub> HF <sub>35</sub> O <sub>2</sub>               |
|      |             | <b>Benzidine and its salts</b>                                                                       |                                                               |
| TB25 | 92-87-5     | Benzidine                                                                                            | C <sub>12</sub> H <sub>12</sub> N <sub>2</sub>                |
|      | -           | Benzidine salts                                                                                      | -                                                             |
|      |             | <b>Biphenyl-4-ylamine and its salts</b>                                                              |                                                               |
| TB26 | 92-67-1     | Biphenyl-4-ylamine                                                                                   | C <sub>12</sub> H <sub>11</sub> N                             |
|      |             | Biphenyl-4-ylamine salts                                                                             | -                                                             |
|      |             | <b>2-naphthylamine (β-Naphthylamine) and its salts</b>                                               |                                                               |
| TB27 | 91-59-8     | 2-naphthylamine (β-Naphthylamine)                                                                    | C <sub>10</sub> H <sub>9</sub> N                              |
|      | -           | 2-naphthylamine (β-Naphthylamine) salts                                                              | -                                                             |
|      |             | <b>Organic phosphorus compounds (limited to Parathion, Methyl Parathion, Methyl Demeton and EPN)</b> |                                                               |
| TB28 | 56-38-2     | Parathion                                                                                            | C <sub>10</sub> H <sub>14</sub> NO <sub>5</sub> PS            |
|      | 298-00-0    | Methyl Parathion                                                                                     | C <sub>8</sub> H <sub>10</sub> NO <sub>5</sub> PS             |
|      | 919-86-8    | Methyl Demeton                                                                                       | C <sub>6</sub> H <sub>15</sub> O <sub>3</sub> PS <sub>2</sub> |
|      | 2104-64-5   | EPN                                                                                                  | C <sub>14</sub> H <sub>14</sub> NO <sub>4</sub> PS            |
| TB29 |             | <b>(deleted)</b>                                                                                     |                                                               |
|      |             | <b>Pentachlorophenol and its salts and its esters</b>                                                |                                                               |
| TB30 | 87-86-5     | Pentachlorophenol                                                                                    | C <sub>6</sub> HCl <sub>5</sub> O                             |
|      | -           | Pentachlorophenol salts and esters                                                                   | -                                                             |
|      |             | <b>Simazine</b>                                                                                      |                                                               |
| TB31 | 122-34-9    | Simazine                                                                                             | C <sub>7</sub> H <sub>12</sub> ClN <sub>5</sub>               |
| TB32 |             | Bisphenol A (limited to thermal paper containing over than 0.02wt% )                                 | -                                                             |
|      | 80-05-7     | Bisphenol A                                                                                          | C <sub>15</sub> H <sub>16</sub> O <sub>2</sub>                |
|      |             | <b>Small Brominated Alkyl Alcohols</b>                                                               |                                                               |
| TB33 | 96-13-9     | 2,3-dibromopropan-1-ol,<br>2,3-dibromo-1-propanol                                                    |                                                               |
|      | 96-21-9     | 1,3-dibromopropan-2-ol                                                                               |                                                               |
|      | 106023-63-6 | 3-Bromo-2-(bromomethyl)-1-propanol                                                                   |                                                               |

|      |                                                                                   |                                                                                   |                                                                               |
|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
|      | 19398-47-1                                                                        | 1,4-dibromobutan-2-ol                                                             |                                                                               |
|      | 79033-40-2                                                                        | 3,4-Dibromo-2-butanol                                                             |                                                                               |
|      | 4021-75-4                                                                         | 2,3-dibromobutan-1-ol                                                             |                                                                               |
|      | 87018-30-2                                                                        | 3,4-Dibromo-1-butanol                                                             |                                                                               |
|      | 35330-59-7                                                                        | 3,4-Dibromo-1,2-butanediol                                                        |                                                                               |
|      | 14396-65-7                                                                        | 1,4-Dibromo-2,3-butanediol                                                        |                                                                               |
|      | 855236-37-2                                                                       | 2,3,4-Tribromo-1-butanol                                                          |                                                                               |
|      | 87018-38-0                                                                        | 1,2,4-Tribromo-3-butanol                                                          |                                                                               |
|      | 105100-80-9                                                                       | 2,2-Bis(bromomethyl)-1-propanol                                                   |                                                                               |
|      | 213821-22-8                                                                       | 4,5-Dibromo-2-pentanol                                                            |                                                                               |
|      | 408319-76-6                                                                       | 1,2-Dibromo-3-pentanol                                                            |                                                                               |
|      | 159475-15-7                                                                       | 1,4-dibromo-(R*,R*)-(9CI)-3-pentanol                                              |                                                                               |
|      | 343268-04-2                                                                       | 2,4-Dibromo-3-pentanol                                                            |                                                                               |
|      | 76377-07-6                                                                        | 3,4-Dibromo-(2R*,3S*,4S*)-(9CI)-2-pentanol                                        |                                                                               |
|      | 59287-66-0                                                                        | 4,5-Dibromo-1-pentanol                                                            |                                                                               |
|      | 856991-78-1                                                                       | 2,5-Dibromo-1-pentanol                                                            |                                                                               |
|      | 100606-66-4                                                                       | 2-Pentanol, 1,5-dibromo-                                                          |                                                                               |
|      | 213821-20-6                                                                       | 2,5-Dibromo-2-pentanol                                                            |                                                                               |
|      | 98069-26-2                                                                        | 4-Bromo-2-(bromomethyl)-1-butanol                                                 |                                                                               |
|      | 3296-90-0                                                                         | 2,2-bis(bromomethyl)propane-1,3-diol<br>Synonyms: Dibromoneopentyl-glycol         |                                                                               |
|      | 44804-46-8                                                                        | 4-Bromo-2-(bromomethyl)-1,3-butanediol                                            |                                                                               |
|      | 1522-92-5                                                                         | 3-Bromo-2,2-bis(bromomethyl)-1-propanol                                           |                                                                               |
|      | 36483-57-5                                                                        | 2,2-dimethylpropan-1-ol,tribromo derivative<br>Synonym: Tribromoneopentyl alcohol |                                                                               |
| TB34 |                                                                                   | <b>Dechlorane A</b>                                                               |                                                                               |
|      | 13560-89-9                                                                        | Dechlorane A                                                                      | C <sub>18</sub> H <sub>12</sub> Cl <sub>12</sub>                              |
| TB35 |                                                                                   | <b>Tris(2-chloro-1-methylethyl) Phosphate</b>                                     |                                                                               |
|      | 13674-84-5                                                                        | Tris(2-chloro-1-methylethyl) Phosphate                                            | C <sub>9</sub> H <sub>18</sub> Cl <sub>3</sub> O <sub>4</sub> P               |
| TB36 |                                                                                   | IEC62474 Declarable substances                                                    |                                                                               |
| TB37 |                                                                                   | <b>China Prioritized chemical inventory substances</b>                            |                                                                               |
|      |                                                                                   | 1st list                                                                          |                                                                               |
|      | 120-82-1                                                                          | 1,2,4-Trichlorobenzene                                                            | C <sub>6</sub> H <sub>3</sub> Cl <sub>3</sub>                                 |
|      | 106-99-0                                                                          | 1,3-Butadiene                                                                     | C <sub>4</sub> H <sub>6</sub>                                                 |
|      | 81-15-2                                                                           | 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)                                | C <sub>12</sub> H <sub>15</sub> N <sub>3</sub> O <sub>6</sub>                 |
|      | 27417-40-9                                                                        | N,N'-ditolyl-p-phenylenediamin                                                    | C <sub>20</sub> H <sub>20</sub> N <sub>2</sub>                                |
|      | 85535-84-8<br>68920-70-7<br>71011-12-6<br>85536-22-7<br>85681-73-8<br>108171-26-2 | Alkanes, chloro (Short Chain Chlorinated Paraffins)                               | C <sub>x</sub> H <sub>(2x-y+2)</sub> Cl <sub>y</sub><br>x = 10-13<br>y = 1-13 |
|      | 75-09-2                                                                           | Dichloromethane                                                                   | CH <sub>2</sub> Cl <sub>2</sub>                                               |
|      | 7440-43-9                                                                         | Cadmium and its compounds                                                         | -                                                                             |
|      | 7439-97-6                                                                         | Mercury and its compounds.                                                        | -                                                                             |
|      | 50-00-0                                                                           | Formaldehyde                                                                      | CH <sub>2</sub> O                                                             |
|      | -                                                                                 | Hexavalent chromium compounds                                                     | -                                                                             |
|      | 77-47-4                                                                           | Hexachlorocyclopentadiene                                                         | C <sub>5</sub> Cl <sub>6</sub>                                                |

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| 25637-99-4<br>3194-55-6<br>134237-50-6<br>134237-51-7<br>134237-52-8                                      | Hexabromocyclododecanes (HBCDDs)                                                          | -                                                              |
| 91-20-3                                                                                                   | Naphthalene (NAP)                                                                         | C <sub>10</sub> H <sub>8</sub>                                 |
| -                                                                                                         | Lead compounds                                                                            | -                                                              |
| 1763-23-1<br>307-35-7<br>2795-39-3<br>29457-72-5<br>29081-56-9<br>70225-14-8<br>56773-42-3<br>251099-16-8 | Perfluorooctane Sulfonate(PFOS) and its salts and PFOSE                                   | -                                                              |
| 25154-52-3<br>84852-15-3<br>9016-45-9                                                                     | nonyl phenyl and poly(oxyethylene) nonylphenyl ether                                      | C <sub>15</sub> H <sub>24</sub> O                              |
| 67-66-3                                                                                                   | Trichloromethane                                                                          | CHCl <sub>3</sub>                                              |
| 79-01-6                                                                                                   | Trichloroethylene                                                                         | C <sub>2</sub> HCl <sub>3</sub>                                |
| 7440-38-2                                                                                                 | Arsenic and its compounds                                                                 | -                                                              |
| 1163-19-5                                                                                                 | Bis(pentabromophenyl) ether (DecaBDE)                                                     | C <sub>12</sub> Br <sub>10</sub> O                             |
| 127-18-4                                                                                                  | Tetrachloroethylene                                                                       | C <sub>2</sub> Cl <sub>4</sub>                                 |
| 75-07-0                                                                                                   | Acetaldehyde                                                                              | C <sub>2</sub> H <sub>4</sub> O                                |
|                                                                                                           | 2nd list                                                                                  |                                                                |
| 75-35-4                                                                                                   | 1,1-Dichloroethene                                                                        |                                                                |
| 78-87-5                                                                                                   | 1,2-Dichloropropane                                                                       |                                                                |
| 121-14-2                                                                                                  | 2,4-Dinitrotoluene                                                                        | C <sub>7</sub> H <sub>6</sub> N <sub>2</sub> O <sub>4</sub>    |
| 732-26-3                                                                                                  | 2,4,6-Tri-t-butylphenol                                                                   | C <sub>18</sub> H <sub>30</sub> O                              |
| 71-43-2                                                                                                   | Benzene                                                                                   | C <sub>6</sub> H <sub>6</sub>                                  |
|                                                                                                           | <b>Polycyclic Aromatic Hydrocarbons containing the following substances</b>               |                                                                |
| 56-55-3                                                                                                   | Benz[a]anthracene                                                                         | C <sub>18</sub> H <sub>12</sub>                                |
| 218-01-9                                                                                                  | Chrysene                                                                                  | C <sub>18</sub> H <sub>12</sub>                                |
| 50-32-8                                                                                                   | Benzo(a)pyrene                                                                            | C <sub>20</sub> H <sub>12</sub>                                |
| 205-99-2                                                                                                  | Benzo(b)fluoranthene                                                                      | C <sub>20</sub> H <sub>12</sub>                                |
| 207-08-9                                                                                                  | Benzo(k)fluoranthene                                                                      | C <sub>20</sub> H <sub>12</sub>                                |
| 120-12-7                                                                                                  | Anthracene                                                                                | C <sub>14</sub> H <sub>10</sub>                                |
| 53-70-3                                                                                                   | Dibenz(a,h)anthracene                                                                     | C <sub>20</sub> H <sub>12</sub>                                |
| -                                                                                                         | <b>Poly Chlorinated Dibenzo-p-Dioxins(PCDD), and Poly Chlorinated Dibenzo Furan(PCDF)</b> |                                                                |
| 108-88-3                                                                                                  | Toluene                                                                                   |                                                                |
| 95-53-4                                                                                                   | o-Toluidine                                                                               | C <sub>7</sub> H <sub>9</sub> N                                |
| 115-96-8                                                                                                  | Tris (2-chloroethyl)phosphate                                                             | C <sub>6</sub> H <sub>12</sub> Cl <sub>3</sub> PO <sub>4</sub> |
| 87-68-3                                                                                                   | Hexachlorobutadiene                                                                       | C <sub>4</sub> Cl <sub>6</sub>                                 |
|                                                                                                           | <b>Chlorobenzenes containing the following substances</b>                                 |                                                                |
| 608-93-5                                                                                                  | Pentachlorobenzene (PeCB)                                                                 | C <sub>6</sub> HCl <sub>5</sub>                                |
| 118-74-1                                                                                                  | Hexachlorobenzene                                                                         | C <sub>6</sub> Cl <sub>6</sub>                                 |
| 335-67-1                                                                                                  | Perfluorooctanoic acid (PFOA) and its salts, and its related compounds                    |                                                                |

|      |                                                             |                                                                                                                                                                           |  |
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|      | -                                                           | Cyanogen compounds                                                                                                                                                        |  |
|      | 7440-28-0                                                   | Thallium and its compounds                                                                                                                                                |  |
|      | 87-86-5<br>131-52-2<br>27735-64-4<br>3772-94-9<br>1825-21-4 | Pentachlorophenol and its salts, and its esters                                                                                                                           |  |
|      | 133-49-3                                                    | Pentachlorothiophenol                                                                                                                                                     |  |
|      | 68937-41-7                                                  | Isopropylated phenol                                                                                                                                                      |  |
| TB38 |                                                             | <b>PFHxS and its salts and its related compounds</b>                                                                                                                      |  |
|      | 111393-39-6                                                 | 1-Hexanesulfonyl bromide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-                                                                                                        |  |
|      | 1270179-82-2                                                | 1-Hexanesulfonamide,<br>1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N,N-dimethyl-                                                                                             |  |
|      | 1270179-93-5                                                | 1-Hexanesulfonamide,<br>N,N-diethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-                                                                                              |  |
|      | 127133-66-8                                                 | 2-Propenoic acid, 2-methyl-, polymers with Bu methacrylate, lauryl methacrylate and<br>2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl methacrylate                  |  |
|      | 129813-71-4                                                 | Sulfonamides, C4-8-alkane, perfluoro,<br>N-methyl-N-(2-oxiranylmethyl)                                                                                                    |  |
|      | 141607-32-1                                                 | $\beta$ -Alanine,<br>N-[3-(dimethylamino)propyl]-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-                                                              |  |
|      | 1427176-17-7                                                | 1-Hexanesulfonamide,<br>N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-methyl-                                                                                         |  |
|      | 1427176-20-2                                                | 1-Hexanesulfonamide,<br>1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N,N-bis(2-methoxyethyl)-                                                                                  |  |
|      | 147029-28-5                                                 | Benzenamine,<br>4-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-                                                                                               |  |
|      | 148240-80-6                                                 | Fatty acids, C18-unsatd., trimers,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl esters                                                 |  |
|      | 148684-79-1                                                 | Sulfonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl,<br>reaction products with 1,6-diisocyanatohexane homopolymer and ethylene glycol                         |  |
|      | 149652-30-2                                                 | Benzene,<br>1-fluoro-4-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-                                                                                          |  |
|      | 160305-97-5                                                 | Benzoic acid,<br>2,3,4,5-tetrachloro-6-[(3-hydroxyphenyl)amino]carbonyl-,<br>perfluoro-C6-8-alkanesulfonates (esters), monopotassium salts                                |  |
|      | 160336-17-4                                                 | 2-Propenoic acid, butyl ester, polymers with<br>2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate                                                             |  |
|      | 160901-25-7                                                 | Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl),<br>reaction products with 2-ethyl-1-hexanol and polymethylenepolyphenylene isocyanate                     |  |
|      | 160901-26-8                                                 | Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl),<br>reaction products with 2-ethyl-1-hexanol, Me Et ketone oxime and polymethylenepolyphenylene isocyanate |  |
|      | 161074-58-4                                                 | Fatty acids, C18-unsatd., trimers,<br>2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl esters                                                                         |  |
|      | 1645842-67-6                                                | Sulfonamides, C4-8-alkane, perfluoro,<br>N-(3-chloro-2-hydroxypropyl)-N-methyl                                                                                            |  |
|      | 1645850-46-9                                                | Sulfonamides, C7-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl),<br>reaction products with 1,3-bis(isocyanatomethyl)benzene and N-butyl-1-butanamine                       |  |

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| 1645852-09-0 | Sulfonamides, C7-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 1,3-bis(isocyanatomethyl)benzene                                                                                                                                                                                                                   |  |
| 1645852-10-3 | Siloxanes and Silicones, di-Me, Bu group- and 3-[(2-methyl-1-oxo-2-propen-1-yl)oxy]propyl group-terminated, telomers with acrylic acid, di-Me, Me 3-mercaptopropyl siloxanes, Me acrylate, Me methacrylate and 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate, 2,2'-(1,2-diazenediyl)bis[2-methylpropanenitrile]-initiated |  |
| 1648534-82-0 | 2-Propenoic acid, polymers with lauryl acrylate and 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate                                                                                                                                                                                                                         |  |
| 1648539-69-8 | Poly(oxy-1,2-ethanediyl), $\alpha$ -[2-(methylamino)ethyl]- $\omega$ -hydroxy-, N-[(perfluoro-C4-8-alkyl)sulfonyl] derivs., C12-16-alkyl ethers                                                                                                                                                                                           |  |
| 1648540-20-8 | 2-Propenoic acid, 2-(methylamino)ethyl ester, N-[(perfluoro-C4-8-alkyl)sulfonyl] derivs., polymers with propene                                                                                                                                                                                                                           |  |
| 171561-95-8  | Benzene, 1-nitro-4-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-                                                                                                                                                                                                                                                              |  |
| 178094-71-8  | 1-Hexanesulfonamide, N-[3-(dimethyloxidoamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, potassium salt (1:1)                                                                                                                                                                                                                      |  |
| 178535-22-3  | Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), polymers with 1,1'-methylenebis[4-isocyanatobenzene] and polymethylenepolyphenylene isocyanate, 2-ethylhexyl esters, Me Et ketone oxime-blocked                                                                                                                           |  |
| 179005-06-2  | Sulfonamides, C4-8-alkane, perfluoro, N-[3-(dimethyloxidoamino)propyl], potassium salts                                                                                                                                                                                                                                                   |  |
| 179005-07-3  | Sulfonamides, C4-8-alkane, perfluoro, N-[3-(dimethyloxidoamino)propyl]                                                                                                                                                                                                                                                                    |  |
| 1893-52-3    | 2-Propenoic acid, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester                                                                                                                                                                                                                                       |  |
| 192662-29-6  | Sulfonamides, C4-8-alkane, perfluoro, N-[3-(dimethylamino)propyl], reaction products with acrylic acid                                                                                                                                                                                                                                    |  |
| 222716-67-8  | Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with poly(Bu acrylate) and polyethylene-polypropylene glycol mono-Bu ether                                                                                                                                                                              |  |
| 254889-10-6  | Pyridinium, 1-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-, inner salt                                                                                                                                                                                                                                               |  |
| 30295-56-8   | 1-Hexanesulfonamide, N-[3-(dimethyloxidoamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-                                                                                                                                                                                                                                            |  |
| 306973-47-7  | Sulfonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with 12-hydroxyoctadecanoic acid and 2,4-TDI, ammonium salts                                                                                                                                                                                           |  |
| 306974-19-6  | Sulfonamides, C4-8-alkane, perfluoro, N-methyl-N-[(3-octadecyl-2-oxo-5-oxazolidinyl)methyl]                                                                                                                                                                                                                                               |  |
| 306974-28-7  | Siloxanes and Silicones, di-Me, mono[3-[(2-methyl-1-oxo-2-propen-1-yl)oxy]propyl group]-terminated, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and stearyl methacrylate                                                                                                                                  |  |
| 306974-45-8  | Sulfonic acids, C6-8-alkane, perfluoro, compds. with polyethylene-polypropylene glycol bis(2-aminopropyl) ether                                                                                                                                                                                                                           |  |
| 306974-63-0  | Fatty acids, C18-unsatd., dimers, 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl esters                                                                                                                                                                                                                                             |  |
| 306975-62-2  | 2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and vinylidene chloride                                                                                                                                                                                           |  |

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| 306975-84-8 | Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-, polymer with 1,6-diisocyanatohexane, N-(hydroxyethyl)-N-methylperfluoro-C4-8-alkanesulfonamides-blocked                                                                             |  |
| 306975-85-9 | 2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with N-(hydroxymethyl)-2-propenamide, 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl methacrylate, stearyl methacrylate and vinylidene chloride                                         |  |
| 306976-25-0 | 1-Hexadecanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-propen-1-yl)oxy]ethyl]-, bromide (1:1), polymers with Bu acrylate, Bu methacrylate and 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate                                        |  |
| 306976-55-6 | 2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with 2,4-diisocyanato-1-methylbenzene, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and 2-propenoic acid, N-ethyl-N-(hydroxyethyl)perfluoro-C4-8-alkanesulfonamides-blocked                |  |
| 306977-10-6 | 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, telomer with 2-[ethyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl methacrylate and 1-octanethiol, N-oxides                                                                               |  |
| 306977-58-2 | 2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester, polymers with acrylic acid, 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and propylene glycol monoacrylate, hydrolyzed, compds. with 2,2'-(methylimino)bis[ethanol] |  |
| 306978-04-1 | 2-Propenoic acid, butyl ester, polymers with acrylamide, 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and vinylidene chloride                                                                                                     |  |
| 306978-65-4 | Hexane, 1,6-diisocyanato-, homopolymer, N-(hydroxyethyl)-N-methylperfluoro-C4-8-alkanesulfonamides- and stearyl alc.-blocked                                                                                                                       |  |
| 306979-40-8 | Poly(oxy-1,2-ethanediyl), $\alpha$ -[2-(methylamino)ethyl]- $\omega$ -[(1,1,3,3-tetramethylbutyl)phenoxy]-, N-[(perfluoro-C4-8-alkyl)sulfonyl] derivs.                                                                                             |  |
| 306980-27-8 | Sulfonamides, C4-8-alkane, perfluoro, N,N'-[1,6-hexanediylbis[(2-oxo-3,5-oxazolidinediyl)methylene]]bis[N-methyl-                                                                                                                                  |  |
| 34455-03-3  | 1-Hexanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-                                                                                                                                                           |  |
| 355-46-4    | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-                                                                                                                                                                                    |  |
| 3871-99-6   | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, potassium salt (1:1)                                                                                                                                                              |  |
| 38850-52-1  | 1-Propanaminium, 3-[(carboxymethyl)[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-N,N,N-trimethyl-, inner salt                                                                                                                     |  |
| 38850-58-7  | 1-Propanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-3-[(3-sulfopropyl)[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-, inner salt                                                                                                     |  |
| 38850-60-1  | 1-Propanesulfonic acid, 3-[[3-(dimethylamino)propyl][(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-                                                                                                                                |  |
| 41997-13-1  | 1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-                                                                                                                                                                                      |  |
| 423-50-7    | 1-Hexanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-                                                                                                                                                                                |  |
| 504396-13-8 | 2-Propenoic acid, 2-methyl-, 2-[ethyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl ester, polymers with polyethylene glycol acrylate Me ether                                                                                                        |  |
| 50598-28-2  | 1-Hexanesulfonamide,                                                                                                                                                                                                                               |  |

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| 507225-08-3 | N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-Siloxanes and Silicones, di-Me, 3-hydroxypropyl group-terminated, reaction products with Me Et ketone oxime, 2-mercaptoethanol, 2-[methyl[(perfluoro-C3-8-alkyl)sulfonyl]amino]ethyl acrylate, polymethylenepolyphenylene isocyanate and polypropylene glycol                                                                                                                                                                                                                                                                                                     |  |
| 52166-82-2  | 1-Propanaminium, N,N,N-trimethyl-3-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-, chloride (1:1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 55120-77-9  | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt (1:1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| 55591-23-6  | 1-Hexanesulfonyl chloride, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| 56372-23-7  | Poly(oxy-1,2-ethanediyl), $\alpha$ -[2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl]- $\omega$ -hydroxy-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| 67584-48-9  | 1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-2-propen-1-yl-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| 67584-53-6  | Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-, potassium salt (1:1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| 67584-57-0  | 2-Propenoic acid, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 67584-61-6  | 2-Propenoic acid, 2-methyl-, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| 67906-70-1  | 2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| 67906-71-2  | 2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester, polymer with octadecyl 2-propenoate and 2-propenoic acid                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 67939-61-1  | 2-Propenoic acid, 2-methyl-, 4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]butyl ester                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| 67939-92-8  | 1-Hexanesulfonamide, N,N'-[phosphinicobis(oxy-2,1-ethanediyl)]bis[N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| 67969-65-7  | 1-Hexanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-[2-(phosphonoxy)ethyl]-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| 680187-85-3 | Hexane, 1-(ethenylsulfinyl)-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 680187-86-4 | Hexane, 1-(ethenylsulfonyl)-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 68081-83-4  | Carbamic acid, N,N'-(4-methyl-1,3-phenylene)bis-, bis[2-[ethyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl] ester                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| 68227-87-2  | 2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]amino]ethyl ester, telomer with 2-[ethyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-methyloxirane polymer with oxirane di-2-propenoate, 2-methyloxirane polymer with oxirane |  |

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|            | mono-2-propenoate and 1-octanethiol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| 68227-94-1 | 2-Propenoic acid,<br>2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with<br>2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl<br>2-propenoate, $\alpha$ -(2-methyl-1-oxo-2-propen-1-yl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl), $\alpha$ -(2-methyl-1-oxo-2-propen-1-yl)- $\omega$ -(2-methyl-1-oxo-2-propen-1-yl)oxy]poly(oxy-1,2-ethanediyl),<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and $\alpha$ -(1-oxo-2-propen-1-yl)- $\omega$ -methoxypoly(oxy-1,2-ethanediyl)                                                                                                                                              |  |
| 68227-96-3 | 2-Propenoic acid, butyl ester, telomer with<br>2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl<br>2-propenoate, $\alpha$ -(2-methyl-1-oxo-2-propen-1-yl)- $\omega$ -hydroxypoly(oxy-1,4-butanediyl), $\alpha$ -(2-methyl-1-oxo-2-propen-1-yl)- $\omega$ -(2-methyl-1-oxo-2-propen-1-yl)oxy]poly(oxy-1,4-butanediyl),<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 1-octanethiol                                                                                                                                                                                       |  |
| 68227-98-5 | 2-Propenoic acid,<br>4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]butyl ester                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| 68228-00-2 | 2-Propenoic acid, ethyl ester, polymer with<br>4-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]butyl 2-propenoate,<br>4-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]butyl<br>2-propenoate, $\alpha$ -(2-methyl-1-oxo-2-propen-1-yl)- $\omega$ -hydroxypoly(oxy-1,4-butanediyl), $\alpha$ -(2-methyl-1-oxo-2-propen-1-yl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl), $\alpha$ -(2-methyl-1-oxo-2-propen-1-yl)- $\omega$ -(2-methyl-1-oxo-2-propen-1-yl)oxy]poly(oxy-1,4-butanediyl), $\alpha$ -(2-methyl-1-oxo-2-propen-1-yl)- $\omega$ -(2-methyl-1-oxo-2-propen-1-yl)oxy]poly(oxy-1,2-ethanediyl),<br>4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]butyl 2-propenoate,<br>4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]butyl 2-propenoate and<br>4-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]butyl 2-propenoate |  |
| 68239-74-7 | 1-Hexanesulfonamide,<br>1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(4-hydroxybutyl)-N-methyl-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| 68259-08-5 | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, ammonium salt (1:1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 68259-15-4 | 1-Hexanesulfonamide,<br>1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-methyl-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| 68259-38-1 | Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -[2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
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|            | o[ethyl]- ω -hydroxy-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| 68298-09-9 | 1-Hexanesulfonamide,<br>1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(phenylmethyl)-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 68298-74-8 | 2-Propenoic acid, 2-methyl-,<br>2-[[[[5-[[[2-[ethyl[(tridecafluorohexyl)sulfonyl]amino]ethoxy]carbonyl]amino]-2-methylphenyl]amino]carbonyl]oxy]propyl ester (9CI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| 68298-78-2 | 2-Propenoic acid, 2-methyl-,<br>2-[[[[5-[[[2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]amino]ethoxy]carbonyl]amino]-2-methylphenyl]amino]carbonyl]oxy]propyl ester, telomer with butyl 2-propenoate,<br>2-[[[[5-[[[2-[ethyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethoxy]carbonyl]amino]-2-methylphenyl]amino]carbonyl]oxy]propyl 2-methyl-2-propenoate,<br>2-[[[[5-[[[2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethoxy]carbonyl]amino]-2-methylphenyl]amino]carbonyl]oxy]propyl 2-methyl-2-propenoate,<br>2-[[[[5-[[[2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethoxy]carbonyl]amino]-2-methylphenyl]amino]carbonyl]oxy]propyl 2-methyl-2-propenoate,<br>2-[[[[5-[[[2-[ethyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethoxy]carbonyl]amino]-2-methylphenyl]amino]carbonyl]oxy]propyl 2-methyl-2-propenoate,<br>2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 1-octanethiol |  |
| 68299-21-8 | Benzenesulfonic acid,<br>[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]methyl]-, sodium salt (1:1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| 68299-39-8 | 2-Propenoic acid, 2-methyl-,<br>4-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]butyl ester, telomer with butyl 2-propenoate,<br>2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate,<br>4-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]butyl 2-methyl-2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, α -(2-methyl-1-oxo-2-propen-1-yl)- ω -hydroxypoly(oxy-1,4-butanediyl), α -(2-methyl-1-oxo-2-propen-1-yl)- ω -(2-methyl-1-oxo-2-propen-1-yl)oxy]poly(oxy-1,4-butanediyl),<br>4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]butyl 2-methyl-2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate,<br>4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]butyl 2-methyl-2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate,<br>4-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]butyl 2-methyl-2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 1-octanethiol                                                                                                                                                                           |  |

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| 68329-56-6 | 2-Propenoic acid, eicosyl ester, polymer with<br>2-[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, hexadecyl 2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and octadecyl 2-propenoate           |  |
| 68391-09-3 | Sulfonic acids, C6-12-alkane, perfluoro, potassium salts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| 68555-70-4 | Glycine,<br>N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-, sodium salt (1:1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| 68555-75-9 | 1-Hexanesulfonamide,<br>1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| 68555-90-8 | Polymer based on 67584-55-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| 68555-91-9 | 2-Propenoic acid, 2-methyl-,<br>2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]amino]ethyl ester, polymer with<br>2-[ethyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate,<br>2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate,<br>2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate,<br>2-[ethyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and octadecyl 2-methyl-2-propenoate     |  |
| 68555-92-0 | 2-Propenoic acid, 2-methyl-,<br>2-[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with<br>2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and octadecyl 2-methyl-2-propenoate |  |
| 68568-77-4 | 2-Propenoic acid, 2-methyl-,<br>2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]amino]ethyl ester, polymer with 2-chloro-1,3-butadiene,<br>2-[ethyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate,<br>2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate,<br>2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and<br>2-[ethyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate              |  |
| 68586-13-0 | 2-Propenoic acid,<br>2-[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate,<br>$\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl), $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl),<br>2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl                                                                                                                                                                               |  |

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|            | 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate and 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate (9CI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| 68586-14-1 | 2-Propenoic acid, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, telomer with 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, $\alpha$ -(2-methyl-1-oxo-2-propen-1-yl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl), $\alpha$ -(2-methyl-1-oxo-2-propen-1-yl)- $\omega$ -(2-methyl-1-oxo-2-propen-1-yl)oxy]poly(oxy-1,2-ethanediyl), 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 1-octanethiol |  |
| 68608-13-9 | Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with TDI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 68608-14-0 | Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 1,1'-methylenebis[4-isocyanatobenzene]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| 68649-26-3 | 1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-, reaction products with N-ethyl-1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-1-butanefulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-1-heptanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-1-hexanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2-hydroxyethyl)-1-pentanesulfonamide, polymethylenepolyphenylene isocyanate and stearyl alc.                                                                                                                                                                               |  |
| 68797-76-2 | 2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymer with 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 2-oxiranylmethyl 2-methyl-2-propenoate                                                                                                                                       |  |
| 68815-72-5 | Benzoic acid, 2,3,4,5-tetrachloro-6-[[[3-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]oxy]phenyl]amino]carbonyl]-, potassium salt (1:1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| 68867-60-7 | 2-Propenoic acid, 2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and $\alpha$ -(1-oxo-2-propen-1-yl)- $\omega$                                                                                                                                                                          |  |

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
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|            | -methoxypoly(oxy-1,2-ethanediyl)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 68867-62-9 | 2-Propenoic acid, 2-methyl-,<br>2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]amino]ethyl ester, telomer with<br>2-[ethyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl<br>2-methyl-2-propenoate,<br>2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate,<br>2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate,<br>2-[ethyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 1-octanethiol and $\alpha$ -<br>(1-oxo-2-propen-1-yl)- $\omega$ -methoxypoly(oxy-1,2-ethanediyl) |  |
| 68877-32-7 | 2-Propenoic acid, 2-methyl-,<br>2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]amino]ethyl ester, polymer with<br>2-[ethyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl<br>2-methyl-2-propenoate,<br>2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate,<br>2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate,<br>2-[ethyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and 2-methyl-1,3-butadiene                                                                        |  |
| 68891-98-5 | Chromium, diaquatetrachloro[ $\mu$ -[N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]glycinato- $\kappa$ O: $\kappa$ O']- $\mu$ -hydroxybis(2-propanol)di-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 68909-15-9 | 2-Propenoic acid, eicosyl ester, polymers with branched octyl acrylate, 2-[[heptadecafluorooctyl)sulfonyl]methylamino]ethyl acrylate, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl acrylate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl acrylate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl acrylate, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl acrylate, polyethylene glycol acrylate Me ether and stearyl acrylate                                                                                                                                                                                                          |  |
| 68957-32-4 | Glycine,<br>N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| 68957-53-9 | Glycine,<br>N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-, ethyl ester                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 68957-58-4 | 1-Propanaminium,<br>N,N,N-trimethyl-3-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-, iodide (1:1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| 68957-61-9 | 1-Hexanesulfonamide,<br>N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, hydrochloride (1:1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| 70225-16-0 | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| 70248-52-1 | 1-Propanaminium,<br>N,N,N-trimethyl-3-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-, sulfate (2:1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| 70776-36-2 | 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 1,1-dichloroethene,<br>2-[[[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amin                                                                                                                                                                        |  |

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
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|            | o)ethyl 2-propenoate and<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]<br>ethyl 2-propenoate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| 70900-36-6 | 2-Propenoic acid, 2-methyl-,<br>2-[[[2-methyl-5-[[[4-[methyl[(tridecafluorohexyl)sulfonyl]amino]bu<br>toxy]carbonyl]amino]phenyl]amino]carbonyl]oxy]propyl ester (9CI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| 70900-40-2 | 2-Propenoic acid, 2-methyl-,<br>2-[[[5-[[[4-[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)s<br>ulfonyl]methylamino]butoxy]carbonyl]amino]-2-methylphenyl]amin<br>o]carbonyl]oxy]propyl ester, telomer with butyl 2-propenoate,<br>2-[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]m<br>ethylamino]ethyl 2-propenoate,<br>2-[[[2-methyl-5-[[[4-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulf<br>onyl]amino]butoxy]carbonyl]amino]phenyl]amino]carbonyl]oxy]pro<br>pyl 2-methyl-2-propenoate,<br>2-[[[2-methyl-5-[[[4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadeca<br>fluoroheptyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]c<br>arbonyl]oxy]propyl 2-methyl-2-propenoate,<br>2-[[[2-methyl-5-[[[4-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro<br>hexyl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carbony<br>l]oxy]propyl 2-methyl-2-propenoate,<br>2-[[[2-methyl-5-[[[4-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropent<br>yl)sulfonyl]amino]butoxy]carbonyl]amino]phenyl]amino]carbonyl]o<br>xy]propyl 2-methyl-2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl<br>2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfon<br>yl]amino]ethyl 2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amin<br>o]ethyl 2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]<br>ethyl 2-propenoate and 1-octanethiol |  |
| 71487-20-2 | 2-Propenoic acid, 2-methyl-, methyl ester, polymer with<br>ethenylbenzene,<br>2-[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]m<br>ethylamino]ethyl 2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl<br>2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfon<br>yl]amino]ethyl 2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amin<br>o]ethyl 2-propenoate,<br>2-[methyl[(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentyl)sulfonyl]amino]<br>ethyl 2-propenoate and 2-propenoic acid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| 73772-32-4 | 1-Propanesulfonic acid,<br>3-[[3-(dimethylamino)propyl][(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro<br>hexyl)sulfonyl]amino]-2-hydroxy-, sodium salt (1:1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 73772-33-5 | 1-Hexanesulfonamide,<br>N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-,<br>acetate (1:1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| 73772-34-6 | 1-Hexanesulfonamide,<br>N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-<br>N-[2-[2-(2-hydroxyethoxy)ethoxy]ethyl]-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 76848-59-4 | Benzene,<br>1-chloro-4-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| 76848-68-5 | 1H-Benzimidazolium,<br>1,3-diethyl-2-methyl-5-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)<br>sulfonyl]-, 4-methylbenzenesulfonate (1:1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 80621-17-6 | 1-Propanesulfonic acid,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |

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|             | 3-[methyl[3-[[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]propyl]amino]-, sodium salt (1:1)                                                                 |                                                  |
| 81190-38-7  | 1-Propanaminium, N-(2-hydroxyethyl)-3-[(2-hydroxy-3-sulfopropyl)[[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]-N,N-dimethyl-, hydroxide, sodium salt (1:1:1) |                                                  |
| 82382-12-5  | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, sodium salt (1:1)                                                                                            |                                                  |
| 85665-64-1  | 1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-propyl-                                                                                     |                                                  |
| 85665-66-3  | Glycine, N-propyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-, potassium salt (1:1)                                                                           |                                                  |
| 86525-30-6  | 1-Hexanesulfinic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (2:1)                                                                                              |                                                  |
| 86525-43-1  | Thiophene, 2-[2-[(tridecafluorohexyl)sulfonyl]ethenyl]-                                                                                                                       |                                                  |
| 86525-48-6  | Furan, 2-[2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethenyl]-                                                                                                 |                                                  |
| 86525-51-1  | Benzene, 1-methyl-4-[2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethenyl]-                                                                                      |                                                  |
| 86525-52-2  | Benzene, 1-methoxy-4-[2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethenyl]-                                                                                     |                                                  |
| 89863-48-9  | Thiophene, 2-[1-(phenylthio)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethyl]-                                                                                |                                                  |
| 89863-49-0  | Furan, 2-[1-(phenylthio)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethyl]-                                                                                    |                                                  |
| 89863-50-3  | Benzene, 1-methyl-4-[1-(phenylthio)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethyl]-                                                                         |                                                  |
| 89863-55-8  | Thiophene, 2-[1-(nitromethyl)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethyl]-                                                                               |                                                  |
| 89863-56-9  | Furan, 2-[1-(nitromethyl)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethyl]-                                                                                   |                                                  |
| 89863-63-8  | 2,4-Pentanedione, 3-[1-(2-thienyl)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethyl]-                                                                          |                                                  |
| 89863-64-9  | 2,4-Pentanedione, 3-[1-(2-furanyl)-2-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]ethyl]-                                                                          |                                                  |
| 91081-99-1  | Sulfonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with epichlorohydrin, adipates (esters)                                                    |                                                  |
| 93416-31-0  | Isoxazolidine, 4-(4-methoxyphenyl)-2-methyl-5-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-                                                                       |                                                  |
| 93572-72-6  | Sulfonic acids, C6-12-alkane, perfluoro                                                                                                                                       |                                                  |
| 944578-05-6 | Sulfonamides, C4-8-alkane, perfluoro, N-[4,7-dimethyl-4-[[[(1-methylpropylidene)amino]oxy]-3,5-dioxa-6-aza-4-silanon-6-en-1-yl]-N-ethyl                                       |                                                  |
| TB39        | <b>BisphenolS (limited to thermal paper containing over than 0.02wt%)</b>                                                                                                     |                                                  |
|             | 80-09-1 Bisphenol S                                                                                                                                                           | C <sub>12</sub> H <sub>10</sub> O <sub>4</sub> S |

|      |                                          |                                                                                                                                                                                |                                 |
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| TB40 |                                          | <b>Medium chain chlorinated paraffins (MCCPs)</b>                                                                                                                              |                                 |
|      |                                          | Medium chain chlorinated paraffins (C14-17)                                                                                                                                    | $C_nH_{2n+2-x}Cl_x$ (n : 14-17) |
| TB41 | 13560-89-9<br>135821-03-3<br>135821-74-8 | <b>Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene (“Dechlorane Plus”™) covering any of its individual anti- and syn-isomers or any combination thereof</b> |                                 |
| TB42 |                                          | <b>PBT substances based on TSCA Article 6 (h)</b>                                                                                                                              |                                 |
|      | 732-26-3                                 | 2,4,6-Tri-t-butylphenol                                                                                                                                                        | $C_{18}H_{30}O$                 |
|      | 87-68-3                                  | Hexachlorobutadiene                                                                                                                                                            | $C_4Cl_6$                       |

Guidelines for Green Procurement  
Attached Table: Details of substances (typical examples)

**Toshiba Tec Corporation**

Issue Date: September 1st 2021 (12.2.0 edition)