

# Borealis Banned Substances List

## 1. Scope

Borealis is a chemical manufacturer committed to the Responsible Care Global Charter. The Company therefore bans certain substances from use in its production processes and products, when these substances are of concern for human health or the environment. Borealis also applies a precautionary approach to certain substances that are still being assessed by regulatory authorities, due to the substances' potential health or environmental risks. Borealis will regularly review its Banned Substances List, in light of the conclusions of risk assessments and classifications of chemicals.

**Table 1** lists banned chemical substances, which Borealis does not intentionally use in its production processes or intentionally include in unreacted form in the products it manufactures.

The Banned Substances List is based on Borealis' review of substances that can be used in its base chemicals or polyolefins specific production processes and products. It is not a comprehensive list of other hazardous or potentially hazardous substances that are irrelevant for Borealis' processes or products.

The ban does not apply when a chemical substance occurs in the form of impurities in very low concentrations, when it is handled in small quantities by trained staff at laboratories, or when it is used in certain maintenance processes under strictly controlled conditions.

**2. Borealis Banned Substances List – (Table 1)**

| Substance group                    | Substance name <sup>1</sup>  | CAS no. <sup>2</sup>  | Hazard <sup>3</sup>                 | Regulation <sup>4</sup>           |
|------------------------------------|--|---|-------------------------------------|-----------------------------------|
| Acrylamide                         | Acrylamide   | 79-06-1   | Carc.1B,<br>Mut.1B                  | Annex XVII,<br>SVHC               |
| Alkylphenols and their derivatives | 4-heptylphenol, branched and linear  | Several   | ED                                  | SVHC                              |
|                                    | Octylphenols   | Several   | potential PBT/vPvB,<br>potential ED | ----                              |
|                                    | Nonylphenols   | Several   | CMR,<br>Aq.Acute,<br>Aq.Chron., ED  | Annex XIV,<br>Annex XVII          |
|                                    | Octylphenoethoxylates  | Several   | potential PBT/vPvB,<br>potential ED | ----                              |
|                                    | Nonylphenoethoxylates  | Several   | CMR,<br>Aq.Acute,<br>Aq.Chron., ED  | Annex XIV,<br>Annex XVII          |
|                                    | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)   | 26523-78-4<br>106599-06-8<br>3050-88-2<br>31631-13-7<br>... | ED                                  | SVHC                              |
|                                    | p-(1,1-dimethylpropyl)phenol   | 80-46-6   | ED                                  | SVHC                              |
|                                    | 2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP)   | 732-26-3  | PBT                                 | TSCA Section 6(h)                 |
|                                    | Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear] | Several   | ED                                  | SVHC                              |
|                                    | Phenol, dodecyl-, branched   | 121158-58-5   | Repr. 1B, ED                        | SVHC                              |
|                                    | Phenol, (tetrapropenyl) derivatives  | 74499-35-7  | Repr. 1B, ED                        | SVHC                              |
|                                    | Phenol, 4-dodecyl, branched  | 210555-94-5   | Repr. 1B, ED                        | SVHC                              |
|                                    | 4-isododecylphenol   | 27459-10-5  | Repr. 1B, ED                        | SVHC                              |
| Phenol, tetrapropylene-            | 57427-55-1   | Repr. 1B, ED  | SVHC                                |                                   |
| Phenol, 4-isododecyl-              | 27147-75-7   | Repr. 1B, ED  | SVHC                                |                                   |
| Aniline-Formaldehyde-Polymer       | Formaldehyde, oligomeric reaction products with aniline  | 25214-70-4  | Carc.1B                             | Annex XVII,<br>Annex XIV,<br>SVHC |
| Aromatic amines                    | biphenyl-4-ylamine   | 92-67-1   | Carc.1A                             | Annex XVII                        |

| Substance group                    | Substance name <sup>1</sup>           | CAS no. <sup>2</sup> | Hazard <sup>3</sup>                  | Regulation <sup>4</sup>           |
|------------------------------------|---------------------------------------|----------------------|--------------------------------------|-----------------------------------|
|                                    | benzidine                             | 92-87-5              | Carc.1A,<br>Aq.Acute1,<br>Aq.Chron.1 | Annex XVII                        |
|                                    | 4-chloro-o-toluidine                  | 95-69-2              | Carc. 1B                             | Annex XVII                        |
|                                    | 2-naphthylamine                       | 91-59-8              | Carc.1A,<br>Aq.Chron.2               | Annex XVII                        |
|                                    | o-aminoazotoluene                     | 97-56-3              | Carc. 1B                             | SVHC                              |
|                                    | 5-nitro-o-toluidine                   | 99-55-8              | Carc. 2                              | Annex XVII                        |
|                                    | 4-chloroaniline                       | 106-47-8             | Carc. 1B                             | Annex XVII                        |
|                                    | 4-methoxy-m-phenylenediamine          | 615-05-4             | Carc. 1B                             | Annex XVII                        |
|                                    | 4,4'-methylenedianiline               | 101-77-9             | Carc.1B,<br>Aq.Chron.2               | Annex XVII,<br>Annex XIV,<br>SVHC |
|                                    | 3,3'-dichlorobenzidine                | 91-94-1              | Carc. 1B<br>Aq.Acute1,<br>Aq.Chron.1 | Annex XVII                        |
|                                    | 3,3'-dimethoxybenzidine               | 119-90-4             | Carc. 1B                             | Annex XVII                        |
|                                    | 3,3'-dimethylbenzidine                | 119-93-7             | Carc.1B,<br>Aq.Chron.2               | Annex XVII                        |
|                                    | 4,4'-methylenedi-o-toluidine          | 838-88-0             | Carc. 1B<br>Aq.Acute1,<br>Aq.Chron.1 | Annex XVII                        |
|                                    | 6-methoxy-m-toluidine p-cresidine     | 120-71-8             | Carc. 1B                             | Annex XVII                        |
|                                    | 4,4'-methylene-bis-(2-chloro-aniline) | 101-14-4             | Carc. 1B<br>Aq.Acute1,<br>Aq.Chron.1 | Annex XVII                        |
|                                    | 4,4'-oxydianiline                     | 101-80-4             | Carc.1B,<br>Mut.1B                   | Annex XVII                        |
|                                    | 4,4'-thiodianiline                    | 139-65-1             | Carc.1B,<br>Aq.Chron.2               | Annex XVII                        |
|                                    | o-toluidine                           | 95-53-4              | Carc. 1B                             | Annex XVII                        |
|                                    | 4-methyl-m-phenylenediamine           | 95-80-7              | Mut. 2<br>Carc. 1B                   | Annex XVII<br>SVHC                |
|                                    | 2,4,5-trimethylaniline                | 137-17-7             | Carc.1B,<br>Aq.Chron.2               | Annex XVII                        |
|                                    | o-anisidine                           | 90-04-0              | Mut. 2<br>Carc. 1B                   | Annex XVII                        |
|                                    | 4-amino azobenzene                    | 60-09-3              | Carc. 1B<br>Aq.Acute1,<br>Aq.Chron.1 | Annex XVII<br>SVHC                |
| <b>Arsenic / arsenic compounds</b> | Arsenic                               | 7440-38-2            | Aq.Acute1,<br>Aq.Chron.1             | Annex XVII                        |
|                                    | Arsenic acid                          | 7778-39-4            | Carc.1A,<br>Aq.Acute1,<br>Aq.Chron.1 | Annex XVII,<br>Annex XIV,<br>SVHC |

| Substance group                                       | Substance name <sup>1</sup>   | CAS no. <sup>2</sup> | Hazard <sup>3</sup>                              | Regulation <sup>4</sup>                         |
|---|---|----------------------|--|---|
|   | Calcium arsenate  | 7778-44-1            | Carc.1A,<br>Aq.Acute1,<br>Aq.Chron.1             | Annex XVII,<br>SVHC                             |
|   | Diarsenic pentaoxide  | 1303-28-2            | Carc.1A,<br>Aq.Acute1,<br>Aq.Chron.1             | Annex XVII,<br>Annex XIV,<br>SVHC               |
|   | Diarsenic trioxide  | 1327-53-3            | Carc.1A,<br>Aq.Acute1,<br>Aq.Chron.1             | Annex XVII,<br>Annex XIV,<br>SVHC               |
|   | Lead hydrogen arsenate  | 7784-40-9            | Carc.1A,<br>Repr.1A,<br>Aq.Acute1,<br>Aq.Chron.1 | Annex XVII,<br>RoHS, PPW,<br>ELV, Toys,<br>SVHC |
|   | Triethyl arsenate   | 15606-95-8           | Carc.1A,<br>Aq.Acute1,<br>Aq.Chron.1             | Annex XVII,<br>SVHC                             |
|   | Trilead diarsenate  | 3687-31-8            | Carc.1A,<br>Repr.1A,<br>Aq.Acute1,<br>Aq.Chron.1 | Annex XVII,<br>RoHS, PPW,<br>ELV, Toys,<br>SVHC |
| <b>Artificial musks</b>                               | Musk ketone   | 81-14-1              | Carc.2,<br>Aq.Acute1,<br>Aq.Chron.1              | 1223/2009                                       |
|   | Musk xylene   | 81-15-2              | Carc.2,<br>Aq.Acute1,<br>Aq.Chron.1              | 1223/2009,<br>Annex XIV,<br>SVHC                |
|   | Musk ambrette   | 83-66-9              | potential vPvB                                   | 1223/2009                                       |
|   | Musk tibetene   | 145-39-1             | potential vPvB                                   | 1223/2009                                       |
|   | Polycyclic musks  | Several              | potential<br>PBT/vPvB, ED                        | -----   |
| <b>Asbestos</b>                                       | All   | Several              | CMR  | Annex XVII                                      |
| <b>Azocolorants</b>                                   | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)  | 573-58-0             | Carc. 1B   | SVHC  |
|   | 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) | 1937-37-7            | Carc. 1B   | SVHC  |
| <b>Benzene-1,2,4-tricarboxylic acid 1,2-anhydride</b> | Benzene-1,2,4-tricarboxylic acid 1,2-anhydride  | 552-30-7             | Resp, Sens.                                      | SVHC  |
| <b>Benzotriazole based UV stabilisers</b>             | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol   | 3846-71-7            | PBT; vPvB  | Annex XIV,<br>SVHC                              |
|   | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol   | 25973-55-1           | PBT; vPvB  | Annex XIV,<br>SVHC                              |

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|--|---|----------------------|---------------------------------|-----------------------------|
|  | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol                                 | 36437-37-3           | vPvB                            | Annex XIV, SVHC             |
|  | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol                                       | 3864-99-1            | vPvB                            | Annex XIV, SVHC             |
| <b>2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone</b> |   | 119313-12-1          | Repr. 1B                        | SVHC                        |
| <b>3-Benzylidene camphor (3-BC)</b>                        | 3-Benzylidene camphor (3-BC); 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one | 15087-24-8           | ED                              | SVHC                        |
| <b>Beryllium / beryllium compounds</b>                     | Beryllium   | 7440-41-7            | Carc.1A                         | Annex XVII                  |
|  | Beryllium oxide   | 1304-56-9            | Carc.1A                         | Annex XVII                  |
| <b>Bis(2-methoxyethyl) ether</b>                           | Bis(2-methoxyethyl) ether   | 111-96-6             | Repr. 1B                        | Annex XVII, Annex XIV, SVHC |
| <b>Bisphenols</b>  | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane   | 6807-17-6            | Repr. 1B                        | SVHC                        |
|  | 4,4'-(1-methylpropylidene)bisphenol, Bisphenol B  | 77-40-7              | ED                              | SVHC                        |
| <b>Brominated organic compounds</b>                        | 2,2-bis(bromomethyl)propane-1,3-diol (BMP)  | 3296-90-0            | Carc. 1B                        | SVHC                        |
|  | 1-Bromopropane  | 106-94-5             | Repr. 1B                        | Annex XIV, SVHC             |
|  | 3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)   | 1522-92-5            | Carc. 1B                        | SVHC                        |
|  | Decabromo-1,1'-biphenyl   | 13654-09-6           | PBT, CMR, potential ED          | Annex XVII, RoHS            |
|  | 2,3-dibromo-1-propanol (2,3-DBPA)   | 96-13-9              | Carc. 1B                        | SVHC                        |
|  | 2,2-dimethylpropan-1-ol, tribromo derivative (TBNPA)  | 36483-57-5           | Carc. 1B                        | SVHC                        |
|  | Diphenylether, tetrabromo derivative  | Several              | POP                             | POP                         |
|  | Diphenylether, pentabromo derivative  | Several              | PBT/vPvB, Aq.Acute1, Aq.Chron.1 | RoHS, POP                   |
|  | Diphenylether, hexabromo derivative   | Several              | POP                             | POP                         |
|  | Diphenylether, heptabromo derivative  | Several              | POP                             | POP                         |
|  | Diphenylether, octabromo derivative   | Several              | PBT, Repr.1B                    | Annex XVII, RoHS            |

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|--------------------------------------|--|--|------------------------------------|-----------------------------|
|                                      | Diphenylether, nonabromo derivative                            | Several  | potential PBT/vPvB,                | RoHS                        |
|                                      | Diphenylether, decabromo derivative                            | 1163-19-5  | potential PBT/vPvB,                | RoHS, SVHC                  |
|                                      | Hexabromobiphenyl (HBB)  | 36355-01-8   | PBT, CMR, potential ED             | Annex XVII, RoHS, POP       |
|                                      | 1,2,5,6,9,10-Hexabromocyclodecane                              | 3194-55-6  | potential PBT                      | PRIO, SVHC, Annex XIV       |
|                                      | Hexabromocyclododecane   | 25637-99-4<br>3194-55-6<br>134237-50-6<br>134237-51-7<br>134237-52-8 | PBT                                | PRIO, SVHC                  |
|                                      | Octabromobiphenyl mixture tetrabromo(tetrabromophenyl)b enzene | 27858-07-7   | PBT, CMR, potential ED             | Annex XVII, RoHS            |
|                                      | Tetra-bromo-bisphenol -A, TBBPA                                | 21850-44-2   | Evaluations ongoing                | ----                        |
| <b>Chlorinated organic compounds</b> | Aldrin   | 309-00-2   | Carc.2, Aq.Acute1, Aq.Chron.1      | POP                         |
|                                      | Alkanes, C10-13, chloro (Short-chain chlorinated paraffins)    | 85535-84-8   | Carc.2, Aq.Acute1, Aq.Chron.1, PBT | Annex XVII, SVHC, POP       |
|                                      | Alkanes, C14-17, chloro  | 85535-85-9   | PBT                                | SVHC                        |
|                                      | Alkanes, C14-16, chloro  | 1372804-76-6   | PBT                                | SVHC                        |
|                                      | Chlordane  | 57-74-9  | POP                                | POP                         |
|                                      | Chlordecone  | 143-50-0   | POP                                | POP                         |
|                                      | Chloroform   | 67-66-3  | Carc.2, Repr.2                     | Annex XVII                  |
|                                      | DDT (1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane)            | 50-29-3  | POP                                | POP                         |
|                                      | 1,2-Dichloroethane   | 107-06-2   | Carc.1B                            | Annex XVII, Annex XIV, SVHC |
|                                      | 1,1-Dichloroethene   | 75-35-4  | Carc.2                             | Annex XVII                  |
|                                      | 2,2'-dichloro-4,4'-methylenedianiline                          | 101-14-4   | Carc.1B, Aq.Acute1, Aq.Chron.1     | Annex XVII, Annex XIV, SVHC |
|                                      | 1,3-Dichloro-2-propanol  | 96-23-1  | Carc.1B                            | Annex XVII, GADSL           |
|                                      | Dieldrin   | 60-57-1  | POP                                | POP                         |
|                                      | di-, tri- and tetrachlorotetradecane                           | several  | PBT                                | SVHC                        |

| Substance group | Substance name <sup>1</sup>                                     | CAS no. <sup>2</sup>                        | Hazard <sup>3</sup>                              | Regulation <sup>4</sup>           |
|-----------------|---|---|--|-----------------------------------|
|                 | Endosulfan  | 115-29-7<br>959-98-8<br>33213-65-9          | POP  | POP                               |
|                 | Endrin  | 72-20-8                                     | POP  | POP                               |
|                 | Heptachlor  | 76-44-8                                     | POP  | POP                               |
|                 | Hexachlorobenzene   | 118-74-1                                    | POP  | POP                               |
|                 | Hexachlorobutadiene   | 87-68-3                                     | POP, PBT   | POP, TSCA Section 6(h)            |
|                 | Hexachlorocyclohexanes, including lindane                       | 58-89-9<br>319-84-6<br>319-85-7<br>608-73-1 | POP  | POP                               |
|                 | Mirex   | 2385-85-5                                   | POP  | POP                               |
|                 | Monomethyl dichlorodiphenyl methane (Ugilec 121 or Ugilec 21)   | unknown                                     | Aq.Acute1,<br>Aq.Chron.1                         | Annex XVII                        |
|                 | Pentachlorobenzene  | 608-93-5                                    | POP  | POP                               |
|                 | Pentachloroethane   | 76-01-7                                     | Carc.2   | Annex XVII                        |
|                 | Pentachlorothiophenol (PCTP)                                    | 133-49-3                                    | PBT  | TSCA Section 6(h)                 |
|                 | Polychlorinated biphenyls (PCB)                                 | 1336-36-3 and others                        | Aq.Acute1,<br>Aq.Chron.1,<br>PBT/vPvB            | Annex XVII,<br>POP                |
|                 | Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF) | Several                                     | POP  | Prop 65, POP                      |
|                 | Polychlorinated naphthalenes                                    | several                                     | POP  | POP                               |
|                 | Polychlorinated terphenyls                                      | 61788-33-8                                  | potential<br>PBT/vPvB                            | Annex XVII                        |
|                 | 1,1,1,2-Tetrachloroethane                                       | 630-20-6                                    |  | Annex XVII                        |
|                 | 1,1,2,2-Tetrachloroethane                                       | 79-34-5                                     |  | Annex XVII                        |
|                 | Tetradecane, chloro derivs.                                     | 198840-65-2                                 | PBT  | SVHC                              |
|                 | Toxaphene   | 8001-35-2                                   |  | POP                               |
|                 | Trichlorobenzene  | 108-70-3, 87-61-6, 120-82-1                 | PBT like substance (equivalent level of concern) | Annex XVII,<br>SVHC               |
|                 | 1,1,2-Trichloroethane   | 79-00-5                                     | Carc.2   | Annex XVII                        |
|                 | Trichloroethylene   | 79-01-6                                     | Carc.1B  | Annex XVII,<br>Annex XIV,<br>SVHC |
|                 | 1,2,3-Trichloropropane  | 96-18-4                                     | Carc.1B,<br>Repr.1B                              | Annex XVII,<br>SVHC               |

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|---|---------------------------------|----------------------|--|-----------------------------------|
| <b>Cobalt compounds</b>                                   | Cobalt(II)carbonate             | 513-79-1             | Carc.1B,<br>Repr.1B                              | Annex XVII,<br>SVHC               |
|   | Cobalt(II)diacetate             | 71-48-7              | Carc.1B,<br>Repr.1B                              | Annex XVII,<br>SVHC               |
|   | Cobalt dichloride               | 7646-79-9            | Carc.1B,<br>Repr.1B,<br>Aq.Acute1,<br>Aq.Chron.1 | Annex XVII,<br>SVHC               |
|   | Cobalt(II)dinitrate             | 10141-05-6           | Carc.1B,<br>Repr.1B,<br>Aq.Acute1,<br>Aq.Chron.1 | Annex XVII,<br>SVHC               |
|   | Cobalt(II)sulfate               | 10124-43-3           | Carc.1B,<br>Repr.1B,<br>Aq.Acute1,<br>Aq.Chron.1 | Annex XVII,<br>SVHC               |
| <b>Cyclododecane</b>                                      | Cyclododecane                   | 294-62-2             | PBT  |                                   |
| <b>Diboron trioxide</b>                                   | Diboron trioxide                | 1303-86-2            | Repr. 1B   | SVHC                              |
| <b>1,2-Diethoxyethane</b>                                 | 1,2-Diethoxyethane              | 629-14-1             | Repr. 1A   | SVHC                              |
| <b>Diethyl- and dimethyl sulphates</b>                    | Diethyl sulphate                | 64-67-5              | Carc. 1B<br>Muta. 1B                             | SVHC                              |
|   | Dimethyl sulphate               | 77-78-1              | Carc. 1B<br>Muta. 2                              | SVHC                              |
| <b>N,N-Dimethylacetamide</b>                              | N,N-Dimethylacetamide           | 127-19-5             | Repr.1B  | Annex XVII,<br>SVHC               |
| <b>N,N-Dimethylformamide</b>                              | N,N-Dimethylformamide           | 68-12-2              | Repr.1B  | SVHC                              |
| <b>Dimethyl fumarate</b>                                  | Dimethyl fumarate (DMF)         | 624-49-7             | A  | 2009/251/EC                       |
| <b>2,4-Dinitrotoluene</b>                                 |                                 | 121-14-2             | Carc.1B,<br>Aq.Acute1,<br>Aq.Chron.1             | Annex XVII,<br>Annex XIV,<br>SVHC |
| <b>Dinoseb</b>  | (6-sec-butyl-2,4-dinitrophenol) | 88-85-7              | Repr. 1B<br>Aq.Acute1,<br>Aq.Chron.1             | SVHC                              |
| <b>1,4-Dioxane</b>  | 1,4-Dioxane                     | 123-91-1             | Carc. 1B<br>ELoC HH,<br>ELoC Env                 | SVHC                              |
| <b>2-Ethoxyethanol</b>                                    | 2-Ethoxyethanol                 | 110-80-5             | Repr.1B  | Annex XVII,<br>Toys, SVHC         |
| <b>2-Ethoxyethyl acetate</b>                              | 2-Ethoxyethyl acetate           | 111-15-9             | Repr.1B  | Annex XVII,<br>Toys, SVHC         |
| <b>3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine</b> |                                 | 143860-04-2          | Repr.1B  | SVHC                              |
| <b>Ethylenediamine</b>                                    | Ethylenediamine                 | 107-15-3             | Resp. Sens.                                      | SVHC                              |
| <b>Formamide</b>  | Formamide                       | 75-12-7              | Repr. 1B   | SVHC                              |
| <b>Glutaral</b>   | Glutaral                        | 111-30-8             | Resp. Sens.                                      | SVHC                              |



| Substance group   | Substance name <sup>1</sup>      | CAS no. <sup>2</sup>                             | Hazard <sup>3</sup>   | Regulation <sup>4</sup>                                       |
|---|----------------------------------|--|---|---|
| <b>Glycol ethers</b>  | 2-methoxyethyl acetate           | 110-49-6   | Repr. 1B  | SVHC  |
| <b>Heavy metals and their compounds (Cd, Hg, Pb, Cr(VI) )</b> | Cadmium carbonate                | 513-78-0   | Carc.1B<br>Aq.Acute1<br>Aq. Chron. 1                          | Annex XVII,<br>RoHS, PPW,<br>ELV, Toys                        |
|   | Cadmium chloride                 | 10108-64-2                                       | Carc.1B<br>Muta.1B<br>Repr.B<br>Aq.Acute1 Aq.<br>Chron. 1     | Annex XVII,<br>RoHS, PPW,<br>ELV, Toys,<br>SVHC               |
|   | Cadmium fluoride                 | 7790-79-6  | Carc. 1B  | Annex XVII,<br>RoHS, PPW,<br>ELV, Toys,<br>SVHC               |
|   | Cadmium hydroxide                | 21041-95-2                                       | Carc.1B<br>Aq.Acute1<br>Aq. Chron. 1                          | Annex XVII,<br>RoHS, PPW,<br>ELV, Toys                        |
|   | Cadmium nitrate                  | 10325-94-7                                       | Carc.1B<br>Muta.1B<br>Repr.B<br>Aq.Acute1<br>Aq. Chron. 1     | Annex XVII,<br>RoHS, PPW,<br>ELV, Toys                        |
|   | Cadmium sulphate                 | 10124-36-4<br>31119-53-6                         | Carc. 1B  | Annex XVII,<br>RoHS, PPW,<br>ELV, Toys,<br>SVHC               |
|   | Cadmium sulphide                 | 1306-23-6  | Carc. 1B  | Annex XVII,<br>RoHS, PPW,<br>ELV, Toys,<br>SVHC               |
|   | Pyrochlore, antimony lead yellow | 8012-00-8  | Toxic for reproduction  | SVHC  |
|   | Dichromium tris(chromate)        | 24613-89-6                                       | Carc.1A,<br>Aq.Acute1,<br>Aq.Chron.1                          | Annex XVII,<br>Annex XIV,<br>RoHS, PPW,<br>ELV, Toys          |
|   | Lead(II) bis(methanesulfonate)   | 17570-76-2                                       | Repr. 1A  | Annex XVII,<br>RoHS, PPW,<br>ELV, Toys,<br>SVHC               |
|   | Lead chromate                    | 7758-97-6  | Carc.1B,<br>Repr.1A,<br>Aq.Acute1,<br>Aq.Chron.1              | Annex XVII,<br>RoHS, PPW,<br>ELV, Toys,<br>Annex XIV,<br>SVHC |
| Lead chromate molybdate sulphate red (C.I. Pigment Red 104)   | 12656-85-8                       | Carc.1B,<br>Repr.1A,<br>Aq.Acute1,<br>Aq.Chron.1 | Annex XVII,<br>RoHS, PPW,<br>ELV, Toys,<br>Annex XIV,<br>SVHC |   |

| Substance group                            | Substance name <sup>1</sup>                        | CAS no. <sup>2</sup> | Hazard <sup>3</sup>                     | Regulation <sup>4</sup>                           |
|--|--|----------------------|---|---|
|  | Lead di(acetate)                                   | 301-04-2             | Repr. 1A                                | Annex XVII, RoHS, PPW, ELV, Toys, SVHC            |
|  | Lead diazide, Lead azide                           | 13424-46-9           | Repr.1A, Aq.Acute1, Aq.Chron.1          | Annex XVII, RoHS, PPW, ELV, Toys, SVHC            |
|  | Lead dipicrate                                     | 6477-64-1            | Repr.1A, Aq.Acute1, Aq.Chron.1          | Annex XVII, RoHS, PPW, ELV, Toys, SVHC            |
|  | Lead hydrogen arsenate                             | 7784-40-9            | Carc.1A, Repr.1A, Aq.Acute1, Aq.Chron.1 | Annex XVII, RoHS, PPW, ELV, Toys, SVHC            |
|  | Lead sulfochromate yellow (C.I. Pigment Yellow 34) | 1344-37-2            | Carc.1B, Repr.1A, Aq.Acute1, Aq.Chron.1 | Annex XVII, RoHS, PPW, ELV, Toys, Annex XIV, SVHC |
|  | Lead styphnate                                     | 15245-44-0           | Repr.1A, Aq.Acute1, Aq.Chron.1          | Annex XVII, RoHS, PPW, ELV, Toys, SVHC            |
|  | Pentazinc chromate octahydroxide                   | 49663-84-5           | Carc.1A, Aq.Acute1, Aq.Chron.1          | Annex XVII, Annex XIV, RoHS, PPW, ELV, Toys, SVHC |
|  | Potassium hydroxyl-octaoxodizincatedichromate      | 11103-86-9           | Carc.1A, Aq.Acute1, Aq.Chron.1          | Annex XVII, Annex XIV, RoHS, PPW, ELV, Toys, SVHC |
|  | Strontium chromate                                 | 7789-06-2            | Carc.1B, Aq.Acute1, Aq.Chron.1          | Annex XVII, Annex XIV, RoHS, PPW, ELV, Toys, SVHC |
| <b>Hexahydromethyl-phthalic anhydrides</b> | Hexahydromethylphthalic anhydride                  | 25550-51-0,          | Equivalent level of concern             | SVHC  |
|  | Hexahydro-4-methylphthalic anhydride               | 19438-60-9,          |   |   |
|  | Hexahydro-1-methylphthalic anhydride               | 48122-14-1,          |   |   |
|  | Hexahydro-3-methylphthalic anhydride               | 57110-29-9           |   |   |

| Substance group   | Substance name <sup>1</sup>  | CAS no. <sup>2</sup> | Hazard <sup>3</sup>            | Regulation <sup>4</sup> |
|---|--|----------------------|--------------------------------|-------------------------|
| <b>Imidazolidine-2-thione (2-imidazoline-2-thiol)</b>                   |  | 96-45-7              | Repr. 1B                       | SVHC                    |
| <b>2-Methoxyaniline</b>   | 2-Methoxyaniline; o-Anisidine  | 90-04-0              | Carc. 1B                       | Annex XVII, SVHC        |
| <b>Methoxyacetic acid</b>   | Methoxyacetic acid   | 625-45-6             | Repr. 1B                       | SVHC                    |
| <b>2-Methoxyethanol</b>   | 2-Methoxyethanol   | 109-86-4             | Repr.1B                        | SVHC                    |
| <b>N-methylacetamide</b>  | N-methylacetamide  | 79-16-3              | Repr. 1B                       | SVHC                    |
| <b>4,4'-methylenedi-o-toluidine</b>                                     |  | 838-88-0             | Carc. 1B                       | SVHC                    |
| <b>2-methylimidazole</b>  |  | 693-98-1             | Repr. 1B                       | SVHC                    |
| <b>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one</b>         |  | 71868-10-5           | Repr. 1B                       | SVHC                    |
| <b>Michler's base and certain pigments if containing it &gt; 0,1%</b>   | N,N,N',N'-tetramethyl-4,4'-methylenedianiline  | 101-61-1             | Carc.1B, Aq.Acute1, Aq.Chron.1 | SVHC                    |
|   | α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)  | 6786-83-0            | Carc.1B, Aq.Acute1, Aq.Chron.1 | SVHC                    |
|   | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol  | 561-41-1             | Carc.1B, Aq.Acute1, Aq.Chron.1 | SVHC                    |
|   | [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)                  | 548-62-9             | Carc.1B, Aq.Acute1, Aq.Chron.1 | SVHC                    |
|   | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylenecyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) | 2580-56-5            | Carc.1B, Aq.Acute1, Aq.Chron.1 | SVHC                    |
| <b>Michler's ketone and certain pigments if containing it &gt; 0,1%</b> | 4,4'-bis(dimethylamino)benzophenone  | 90-94-8              | Carc. 1B<br>Muta. 2            | SVHC                    |
|   | α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)  | 6786-83-0            | Carc. 1B<br>Muta. 2            | SVHC                    |
|   | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol  | 561-41-1             | Carc. 1B<br>Muta. 2            | SVHC                    |

| Substance group                                   | Substance name <sup>1</sup>  | CAS no. <sup>2</sup> | Hazard <sup>3</sup>                  | Regulation <sup>4</sup> |
|---|--|----------------------|--------------------------------------|-------------------------|
|   | [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)                    | 548-62-9             | Carc. 1B<br>Muta. 2                  | SVHC                    |
|   | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methyle]ne]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) | 2580-56-5            | Carc. 1B<br>Muta. 2                  | SVHC                    |
| <b>Monomethyl dibromodiphenyl methane (DBBT)</b>  | Monomethyl dibromodiphenyl methane (DBBT)  | 99688-47-8           | Aq.Acute1,<br>Aq.Chron.1             | Annex XVII              |
| <b>Nickel</b>                                     | Nickel   | 7440-02-0            | Carc.2                               | Annex XVII              |
| <b>4-Nitrobiphenyl</b>                            |  | 92-93-3              | Carc.1B,<br>Aq.Chron.2               | Annex XVII              |
| <b>Organostannic compounds</b>                    | Dibutylbis(pentane-2,4-dionato-O,O')tin  | 22673-19-4           | Repr.1B                              | SVHC                    |
|   | Dibutyltin dichloride (DBTC)   | 683-18-1             | Repr. 1B<br>Aq.Acute1,<br>Aq.Chron.1 | SVHC                    |
|   | Tributyltin  | 688-73-3             | potential<br>PBT/vPvB                | Annex XVII              |
|   | Bis(tributyltin)oxide  | 56-35-9              | PBT                                  | SVHC                    |
|   | Triphenyltin compounds   | Several              | potential<br>PBT/vPvB                | ----                    |
| <b>orthoboric acid, sodium salt</b>               | Boric acid (H <sub>3</sub> BO <sub>3</sub> ), sodium salt (1:1)  | 14890-53-0           | Repr. 1B                             | SVHC                    |
|   | boric acid (H <sub>3</sub> BO <sub>3</sub> ), sodium salt, hydrate   | 25747-83-5           | Repr. 1B                             | SVHC                    |
|   | Boric acid, sodium salt  | 1333-73-9            | Repr. 1B                             | SVHC                    |
|   | Orthoboric acid, sodium salt   | 13840-56-7           | Repr. 1B                             | SVHC                    |
|   | Trisodium orthoborate  | 14312-40-4           | Repr. 1B                             | SVHC                    |
|   | Boric acid (H <sub>3</sub> BO <sub>3</sub> ), disodium salt  | 22454-04-2           | Repr. 1B                             | SVHC                    |
| <b>o-Toluidine</b>                                |  | 95-53-4              | Carcinogenic                         | SVHC                    |
| <b>p-Cresidine</b>                                | 6-methoxy-m-toluidine  | 120-71-8             | Carcinogenic                         | SVHC                    |
| <b>Parabens</b>                                   | Butyl 4-hydroxybenzoate  | 94-26-8              | ED                                   | SVHC                    |
| <b>PFAS (per- and polyfluoroalkyl substances)</b> | Ammonium pentadecafluorooctanoate (APFO)   | 3825-26-1            | Repr 2<br>PBT                        | SVHC                    |
|   | Henicosafuoroundecanoic acid   | 2058-94-8            | vPvB                                 | SVHC                    |
|   | Heptacosafuorotetradecanoic acid   | 376-06-7             | vPvB                                 | SVHC                    |

| Substance group                        | Substance name <sup>1</sup>  | CAS no. <sup>2</sup>                | Hazard <sup>3</sup>                | Regulation <sup>4</sup>     |
|--|--|-------------------------------------|------------------------------------|-----------------------------|
|  | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts   | 335-76-2<br>3830-45-3<br>3108-42-7  | Repr 1B                            | SVHC                        |
|  | Pentacosafluorotridecanoic acid  | 72629-94-8                          | vPvB                               | SVHC                        |
|  | Perfluorobutane sulfonic acid (PFBS) and its salts   | Several                             | Equivilant level of concern        | SVHC                        |
|  | Perfluorohexane-1-sulphonic acid and its salts   | Several                             | vPvB                               | SVHC                        |
|  | Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluorononanoic acid and its sodium and ammonium salts                                      | 375-95-1<br>21049-39-8<br>4149-60-4 | Repr 1B<br>PBT                     | SVHC                        |
|  | Perfluorooctane sulfonaic acid and its derivatives (PFOS)  | Several                             | PBT                                | Annex XVII, POP             |
|  | Perfluorooctanoic acid (PFOA)  | 335-67-1                            | Repr 1B<br>PBT                     | SVHC                        |
|  | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof) | Several                             | Equivilant level of concern        | SVHC                        |
|  | Tricosafafluorododecanoic acid   | 307-55-1                            | vPvB                               | SVHC                        |
| <b>Phenolphthalein</b>                 | Phenolphthalein  | 77-09-8                             | Carc.1B                            | Annex XVII, SVHC            |
| <b>Phthalates and their anhydrides</b> | Benzylbutylphthalate (BBP)   | 85-68-7                             | Repr.1B, ED, Aq.Acute1, Aq.Chron.1 | Annex XVII, Annex XIV, SVHC |
|  | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters  | 68515-51-5<br>68648-93-1            | Repr. 1B                           | Annex XIV, Annex XVII, SVHC |
|  | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich   | 71888-89-6                          | Repr.1B                            | Annex XIV, Annex XVII, SVHC |
|  | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters  | 68515-42-4                          | Repr.1B                            | Annex XIV, Annex XVII, SVHC |
|  | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear   | 68515-50-4                          | Repr.1B                            | Annex XIV, Annex XVII, SVHC |
|  | 1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear  | 84777-06-0                          | Repr.1B                            | Annex XIV, Annex XVII, SVHC |
|  | Bis(2-methoxyethyl) phthalate  | 117-82-8                            | Repr.1B                            | Annex XIV, Annex XVII, SVHC |

| Substance group   | Substance name <sup>1</sup>                    | CAS no. <sup>2</sup>     | Hazard <sup>3</sup>            | Regulation <sup>4</sup>     |
|---|--|--------------------------|--------------------------------|-----------------------------|
|   | Dibutylphthalate (DBP)                         | 84-74-2                  | Repr.1B, ED, Aq.Acute1         | Annex XVII, Annex XIV, SVHC |
|   | Dicyclohexyl phthalate (DCHP)                  | 84-61-7                  | Repr.1B                        | SVHC                        |
|   | Dihexyl phthalate                              | 84-75-3                  | Repr.1B                        | Annex XIV, SVHC             |
|   | Di-,isononyl'phthalate (DINP)                  | 28553-12-0<br>68515-48-0 | potential ED, potential CMR    | Annex XVII                  |
|   | Diisohexyl phthalate                           | 71850-09-4               | Repr.1B                        | SVHC                        |
|   | Di-n-octylphthalate (DNOP)                     | 117-84-0                 | potential ED, potential CMR    | Annex XVII                  |
|   | Dipentyl phthalate (DPP)                       | 131-18-0                 | Repr. 1B<br>Aq.Acute 1         | Annex XIV, SVHC             |
|   | Diisopentyl phthalate                          | 605-50-5                 | Repr.1B                        | Annex XIV, SVHC             |
|   | Diundecyl phthalate, DuDP, branched and linear | 3648-20-2                | potential ED                   |                             |
|   | N-pentyl-isopentylphthalate                    | 776297-69-9              | Repr.1B                        | Annex XIV, SVHC             |
| <b>Sodium perborate; perboric acid, sodium salt</b>                           | Sodium perborate; perboric acid, sodium salt   | 15120-21-5<br>11138-47-9 | Repr. 1B                       | Annex XIV, SVHC             |
| <b>Sodium peroxometaborate</b>  | Sodium peroxometaborate                        | 7632-04-4                | Repr. 1B                       | Annex XIV, SVHC             |
| <b>2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers</b> | (2R)-3-(4-tert-butylphenyl)-2-methylpropanal   | 75166-31-3               | Repr. 1B                       | SVHC                        |
|   | 2-(4-tert-butylbenzyl)propionaldehyde          | 80-54-6                  | Repr. 1B                       | SVHC                        |
|   | (2S)-3-(4-tert-butylphenyl)-2-methylpropanal   | 75166-30-2               | Repr. 1B                       | SVHC                        |
| <b>Tetraboron disodium heptaoxide, hydrate</b>                                | Tetraboron disodium heptaoxide, hydrate        | 12267-73-1               | Repr.1B                        | SVHC                        |
| <b>4-(1,1,3,3-tetramethylbutyl)phenol and it's ethoxylated compounds</b>      | 4-(1,1,3,3-tetramethylbutyl)phenol             | 140-66-9                 | ED<br>Aq.Acute1,<br>Aq.Chron.1 | Annex XIV, SVHC             |
| <b>Triclosan</b>  |  | 3380-34-5                | Aq.Acute1,<br>Aq.Chron.1       | ----                        |
| <b>Tris(2-chloroethyl) phosphate</b>  |  | 115-96-8                 | Repr.1B,<br>Aq.Chron.2         | Annex XIV, SVHC             |

| Substance group   | Substance name <sup>1</sup> | CAS no. <sup>2</sup> | Hazard <sup>3</sup> | Regulation <sup>4</sup> |
|---|-----------------------------|----------------------|---------------------|-------------------------|
| 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione ( $\beta$ -TGIC) |                             | 59653-74-6           | Muta. 1B            | SVHC                    |
| 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)                              |                             | 2451-62-9            | Muta. 1B            | SVHC                    |
| Trixylyl phosphate  |                             | 25155-23-1           | Rep. 1B             | Annex XIV, SVHC         |
| Vinyl chloride  |                             | 75-01-4              | Carc.1A             | Annex XVII              |
| Vinylidene chloride   |                             | 75-35-4              | Carc.2              | Annex XVII              |
| 1-vinylimidazole  |                             | 1072-63-5            | Repr.1B             | SVHC                    |

### 3. Explanation of footnotes

- 1) Only the substances explicitly listed in Table 1 are covered by this standard.
- 2) CAS no. = Chemical Abstract Service registry number
- 3) Hazards related to the chemical substance  
**A** = allergenic, **Aq.Acute\*** = hazardous to the aquatic environment: acute hazard, category, **Aq.Chron.\*** = hazardous to the aquatic environment: chronic hazard, category, **Carc.\*** = carcinogenicity category, **CMR** = carcinogenic, mutagenic, toxic to reproduction, **ED** = endocrine disruptor, **ELoC HH** = Equivalent level of concern having probable serious effects to human health , **ELoC Env** = Equivalent level of concern having probable serious effects to the environment, **IARC** = International Agency for Research on Cancer, **Mut.\*** = germ cell mutagenicity, category, **PBT/vPvB** = persistent, bio-accumulative and toxic / very persistent and very bio-accumulative, **Repr.\*** = reproductive toxicity category,  
\* Classification according to Annex VI, Regulation 1272/2008/EC
- 4) Important regulations or standards which ban or restrict the use of the relevant substance in the US and EU (not intended to be an exhaustive list of all applicable regulations and standards)  
**1223/2009** = REGULATION (EC) No 1223/2009 on cosmetic products  
**1333/2008/EC** = Regulation (EC) 1333/2008 on food additives other than colours and sweeteners  
**(EU) 2011/10** = Regulation (EU) 2011/10 plastic materials and articles intended to come into contact with foodstuffs  
**2009/251/EC** = Commission Decision 2009/251/EC - requiring Member States to ensure that products containing the biocide dimethyl fumarate are not placed or made available on the market  
**Annex XIV** = Annex XIV "List of substances subject to authorisation" of REACH (Regulation (EC) No 1907/2006) as amended.  
**Annex XVII** = Annex XVII "Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles" of REACH (Regulation (EC) No 1907/2006) as amended. Supersedes and replaces Directive 76/769/EEC of 01 June 2009.  
**ELV** = Directive 2000/53/EC – End life of vehicles  
**GADSL** = Global Automotive Declarable Substance List  
**POP** = Regulation (EC) No 850/2004 – EU implementation of Stockholm Convention on persistent organic pollutants  
**PPW** = Directive 94/62/EC – Packaging and packaging waste  
**PRIO** = PRIO database of Swedish Chemicals Agency (KEMI)  
**Prop 65** = Proposition 65 of the State of California and subsequent amendments – Chemicals known to the state to cause cancer or reproductive toxicity  
**RoHS** = Directive 2011/65/EC – Restriction of certain hazardous substances in electrical and electronic equipment  
**SVHC** = Substances of very high concern proposed for inclusion in or already included in the REACH candidate list for authorisation, or included in Annex XIV of the Regulation (EC) No 1907/2006 – Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as amended.  
**TSCA Section 6(h)** = Persistent, Bioaccumulative, and Toxic (PBT) Chemicals under US Toxic Substances Control Act, Section 6(h)  
**Toys** = Directive 2009/48/EC on the safety of toys



#### 4. Updates

- Edition 1: This Black and Grey List has been issued on 17 November 2009 and replaces the document “Borealis Banned Substances (Black List)”, Ed. 8
- Edition 2: This Black and Grey List has been updated on 4 January 2011.
- Edition 3: This Black and Grey List has been updated on 1 July 2011.
- Edition 4: This Black and Grey List has been updated on 24 January 2012. Substance entries added or changed are highlighted by grey background colour.
- Edition 5: This Black and Grey List has been updated on 9 July 2012. Substance entries added or changed are highlighted by grey background colour.
- Edition 6: This Black and Grey List has been updated on 9 July 2013. Substance entries added or changed are highlighted by grey background colour.
- Edition 7: This Black and Grey List has been updated on 26 February 2014. Substance entries added or changed are highlighted by grey background colour.
- Edition 8: This Black and Grey List has been updated on 1 August 2014. Substance entries added or changed are highlighted by grey background colour.
- Edition 9: The scope of the Borealis Banned Substances List has been changed. It has been issued on 06 December 2016.
- Edition 10: This Banned Substances List has been updated on 24 November 2017. Substance entries added or changed are highlighted by grey background colour.
- Edition 11: This Banned Substances List has been updated on 19 December 2018. Substance entries added or changed are highlighted by grey background colour.
- Edition 12: This Banned Substances List has been updated on 20 December 2019. Substance entries added or changed are highlighted by grey background colour. The group of polycyclic aromatic hydrocarbons (PAH) has been taken off the list because their impurity status in some of our heavy cracker streams has been revised due to a change of concept regarding UVCBs (substances of very complex and variable/partly undefined composition) in the ECHA [PetCo working group](#).
- Edition 13: This Banned Substances List has been updated on 21 December 2020. Substance entries added or changed are highlighted by grey background colour.
- Edition 14: This Banned Substances List has been updated on 16 June 2021. The substances Dibutyltin didodecanoate / Dibutyltin dilaurate (DBTL), CAS 77-58-7, and Di-,isodecyl'phthalate (DIDP), CAS 26761-40-0 or CAS 68515-49-1, had to be removed from this list due to recent acquisitions. The Borealis Banned Substances List will be up-dated as soon as a viable solution for these substances is found also in these production sites.
- Edition 15: This Banned Substances List has been updated on 21 December 2021. Substance entries added or changed are highlighted by grey background colour.