

**Owner**  
Hanna Duraku

**Approval Date**  
19/10/2017

**No.**  
T11647-08 UEN

**Version**  
5

**Security**  
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**Approved by**  
Head of Sustainability

**Related**  
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### Substances that are to be avoided – The Telia Company Grey list<sup>1</sup>

The following substances are under evaluation and should be avoided in all products and services, neither included in contracting nor manufacturing processes of products and services to Telia Company. This refers to any deliberate use of the substance specified but does not apply in cases where a substance constitutes of impurities of low concentration<sup>2</sup>. To be noted: All chemicals used in contracting are to be evaluated separately, according to specific procedures and risk assessments.

Please notice that the producer/supplier shall be able to report the content of all specified materials / substances listed below including chemicals specified in the REACH candidate list when requested by Telia Company.

| Substances that are to be avoided |  |                     |   |
|-----------------------------------|--|---------------------|---|
| Group                             | Substance  | CAS no <sup>3</sup> | Reason for concern                                      |
|                                   | 4,4'-Isopropylidendiphenol (bisphenol A)   | 80-05-7             | Toxic   |
|                                   | 1,2-Benzene-dicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)     | 71888-89-6          | REACH candidate list                                    |
|                                   | 1,2-Benzene-dicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 68515-42-4          | REACH candidate list                                    |
| Antimony and its compounds        |  | Several             | Toxic   |
| Aromatic amines <sup>4</sup>      |  | Several             | Carcinogenic  |
| Beryllium and its compounds       |  | Several             | BeO: Carcinogenic<br>Alloys: Can form BeO when recycled |
|                                   | Bis(2-methoxyethyl) phthalate  | 117-82-8            | REACH candidate list                                    |
| Bismuth and its compounds         |  | Several             | Negative for recycling                                  |
| Chlorinated polymers              |  | Several             | Can create toxic substances when recycled               |
| Fluorocarbons – FC                |  | Several             | Global warming  |
| Fluorohydrocarbons – HFC          |  | Several             | Global warming  |

<sup>1</sup> For information: The “Grey list” is based on a combination of global, regional and national legislation, customer requirements and proposed legislation.

<sup>2</sup> The maximum allowed concentration by weight of the noted substances are <0,1% in homogeneous materials such as in cables, connector pipes and joint plates, pigment in crystal glass, in lead petrol, in polymers and in electronic equipment if not stated otherwise.

For the following substance the maximum allowed concentration is: Cadmium <0,01%.

For allowed concentrations of Chrome in Cement and Cadmium and Mercury in batteries, please contact Telia Company for additional information.

<sup>3</sup> EC number if available

<sup>4</sup> Except for the ones that's banned according to 2002/61/EC



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|  |  |                         |   |
|--|--|-------------------------|---|
| Formaldehyde   |  | 50-00-0                 | Carcinogenic  |
| Halogenated flame retardants except brominated of the types PBB and PBDE which are prohibited <sup>5</sup> . |  | Several                 | Can create toxic substances when recycled               |
| Lead/lead compounds in batteries. Certain applications are banned <sup>4</sup> .                             |  | 7439-92-1               | Toxic   |
| Manganese and Manganese compounds (and dioxide)  |  | 7439-96-5<br>1313-13-9  | Toxic   |
| Medium chained chlorinated paraffin's C14-C17  |  | Several                 | Toxic   |
| Nickel and its alloys, except in steel alloys  |  | Several                 | Allergenic  |
|  | Nitrogen trifluoride                           | 7783-54-2               | Global warming  |
| Perchlorates   |  | Several                 | Labeling requirements                                   |
| Phthalates (Except the ones that is banned)  |  | Several                 | Carcinogenic  |
| Polycyclic Aromatic Hydrocarbons (PAH)   |  | Several                 | Carcinogenic  |
| Poly Vinyl Chloride (PVC)  |  | Several                 | Can create toxic substances when recycled + HCl in fire |
| Radioactive substances   |  | Several                 | Carcinogenic  |
| Selenium and selenium compounds  |  | 7782-49-2               | Toxic   |
|  | Sodium dichromate                              | 10588-01-9<br>7789-12-0 | Carcinogenic, mutagenic and toxic to reproduction       |
|  | Sulfur hexafluoride, SF6                       | 2551-62-4               | Global warming  |
|  | Bis-(dimethylpentyl)-p-phenylenediamine (77PD) |                         | Toxic   |
|  | dimethylbutyl-p-phenylenediamine (6PPD)        |                         | Toxic   |
|  | cyclohexylthiophthalimide,                     |                         | Toxic   |
|  | 4-(1,1,3,3- tetramethylbutyl)phenol            |                         | Toxic   |
| Thermosetting Plastic's (Acrylate, Amino, Epoxy, Urethane-PUR incl. isocyanates and diisocyanates)           |  | Several                 | Allergenic, carcinogenic and toxic                      |
| All substances on the REACH candidate list <sup>6</sup> that have not been specified above                   |  | Several                 | Several   |

<sup>5</sup> See Telia Company's "Black list"

<sup>6</sup> <http://echa.europa.eu/candidate-list-table>


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## PURPOSE

The purpose of The Telia Company Grey list is to ensure that Telia Company is in compliance with its environmental policy, existing and anticipated environmental legislation and with market requirements.

## SCOPE

This Instruction applies to Telia Company AB and its Subsidiaries.

## TERMS AND ABBREVIATIONS

| Terms and abbreviations | Definition   |
|-------------------------|--|
| REACH                   | Regulation of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals |

**NOTE!** For further information, also read the *Supplier Code of Conduct*, *Group Policy – Environment*, *Group Instruction - Environment* and the *Instruction – Prohibited substances – The Telia Company Black List*.

