

# Instruction/Work Instruction, Prohibited and restricted substance list

## Summary:

This document defines and list Dellner prohibited and restricted substances. The document is intended both for internal and external usage.

## Document information

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*Date and revision, see upper right corner. Revision history, see last page.*

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## 1 Purpose

The purpose of the procedure is to define and list Dellner prohibited and restricted substances.

## 2 Scope

The procedure is valid both for internal and external use. This procedure is also one part of Dellner environmental requirements on suppliers.

## 3 Responsibility

The Environmental & Eco Product Specialist is responsible for keeping this list up to date.

All employees managing the introduction of chemicals or materials (including chemicals and materials used for service), are responsible to control products against this list.

Employees working with suppliers are responsible for sending this list to our direct material suppliers. The list shall also be sent to indirect material suppliers if applicable.

Our suppliers shall follow the requirements in this list.

## 4 Prohibited and restricted substance list

### 4.1 Dellner classification

Prohibited substances **(P)** shall not be used in concentrations above content limits in accordance with current legislation. For restricted substances **(R)** active substitution work shall be performed to eliminate the substances or to find less hazardous alternatives, which could be introduced as soon as it is technically and economically possible.

### 4.2 Dellner Prohibited and Restricted substances list

Substance/List	CAS#	Dellner classification	Examples of application/clarification/comment
Per- and polyfluoroalkyl substances (PFAS)	All	P, R	P: All P(AR) in RISL, All SVHC R: Others
Rail Industry Substance List; RISL P(AR) substances	All	P	www.unife.org
Rail Industry Substance List; RISL D(FA) substances	All	R	www.unife.org
SVHC (Substances of very high concern) on the Candidate list, according to article 59 of the REACH Regulation	All	R	Products that contain SVHC substances at concentrations $\geq 0,1\%$ (w/w) shall be declared and approved by Dellner
Substances that are considered as Endocrine Disruptors (ED), by ECHA or according to Endocrine Disruptor List I (edlists.org)	All	P, R	P: All P(AR) in RISL, All SVHC R: Others
Chrome (VI+) and compounds contain Cr(VI)	e.g. 1333-82-0 7775-11-3 10588-01-9 10294-40-3	P	Electric and electronic equipment are covered by RoHS Surface treatment, electroplating Pigment in paint
Chromates, others	All	R	Surface treatment, Cr3+
Cadmium and its compounds	All SVHC 7440-43-9 (Cd)	P	Electric and electronic equipment's are covered by RoHS Chemical products, printing ink Metal
Lead and its compounds	All SVHC 7439-92-1 (Pb)	P	Electric and electronic equipment's are covered by RoHS Chemical products, paints, printing ink. Metal
Mercury and its compounds	All SVHC 7439-97-6 (Hg)	P	Chemical products, printing ink Elastomers, Metal
BPA; Bisphenol A	80-05-7	P	Additive in elastomers or other plastics such as epoxy (EP),

Substance/List	CAS#	Dellner classification	Examples of application/clarification/comment
Per- and polyfluoroalkyl substances (PFAS)	All	P, R	P: All P(AR) in RISL, All SVHC R: Others
(4,4'-isopropylidenediphenol)			Polyvinylchloride (PVC), Polyamide/Nylon (PA), Polycarbonate (PC) and Polyurethan (PUR)
Polyvinylchloride (PVC)	9002-86-2	R	Plastic films, hoses, housings for electrical cables

## 5 Revision History

Revision	Section	New content/Change	Date
1		New document	2021-12-10
2	4.2	PFAS and ED assessed by Echa added	2024-02-21