

# Safety data sheet

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Chemetall (now part of BASF Group) Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 31.03.2021

Version: 2.0

Date previous version: 24.04.2019

Previous version: 1.1

Product: **ARDROX 996PB, Aerosol**

(ID no. 30706586/SDS\_GEN\_GB/EN)

Date of print 01.04.2021

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

## **ARDROX 996PB, Aerosol**

UFI: 57VX-72YT-F00Y-Q2A9

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Red penetrative liquid.

Not recommended use: Uses other than recommended

### 1.3. Details of the supplier of the safety data sheet

Company:  
Chemetall Ltd.  
Napier House, Auckland Park  
Bletchley, MK1 1BU  
Great Britain  
+44 1908 649333  
sds.global-chemetall@basf.com

### 1.4. Emergency telephone number

International emergency number:  
Telephone: +49 180 2273-112

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## SECTION 2: Hazards Identification

### 2.1. Classification of the substance or mixture

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For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

#### According to Regulation (EC) No 1272/2008 [CLP]

Eye Dam./Irrit. 2	H319 Causes serious eye irritation.
Flam. Aerosol 1	H222 Extremely flammable aerosol.
Flam. Aerosol 1	H229 Pressurized container: May burst if heated.

For the classifications not written out in full in this section the full text can be found in section 16.

## 2.2. Label elements

### Globally Harmonized System, EU (GHS)

Pictogram:



Signal Word:

Danger

Hazard Statement:

H222	Extremely flammable aerosol.
H229	Pressurized container: May burst if heated.
H319	Causes serious eye irritation.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P251	Do not pierce or burn, even after use.
P211	Do not spray on an open flame or other ignition source.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264	Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical attention.

Precautionary Statements (Storage):

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P410 + P412

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

### 2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

Container is under pressure. Protect from sun and temperatures above 50 °C. Do not open with force or incinerate even after use. Do not spray into flames or onto glowing objects.

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Chemical nature

organic compounds, organic solvent

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

| 2-(2-butoxyethoxy)ethanol

Content (W/W): >= 10 % - < 12.5 % Eye Dam./Irrit. 2  
H319

CAS Number: 112-34-5

EC-Number: 203-961-6

REACH registration number: 01-2119475104-44

INDEX-Number: 603-096-00-8

| 2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar''-Me derivs.

Content (W/W): >= 0.5 % - < 1 % Repr. 2 (fertility)  
CAS Number: 92257-31-3 STOT RE (Liver, Spleen) 2  
EC-Number: 296-120-8 Aquatic Chronic 4  
H361f, H373, H413

| Distillates (petroleum), hydrotreated light naphthenic

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Content (W/W): $\geq 1\%$ - $< 2\%$	Asp. Tox. 1
CAS Number: 64742-53-6	H304
EC-Number: 265-156-6	

| Hydrocarbons, C13-C16,  $< 0,03\%$  aromatics

Content (W/W): $\geq 20\%$ - $< 25\%$	Asp. Tox. 1
CAS Number: 64742-46-7	H304
REACH registration number: 01-2119826592-36	

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

## SECTION 4: First-Aid Measures

### 4.1. Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Immediately remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

On skin contact:

If symptoms persist, seek medical advice. Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Do NOT use solvents or thinners.

On contact with eyes:

Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

On ingestion:

Do not induce vomiting. Rinse mouth thoroughly with water, seek medical attention. If adverse health effects develop seek medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms: Eye irritation, Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Symptomatic treatment (decontamination, vital functions).

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Antidote: No known specific antidote.

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## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:

water jet

### 5.2. Special hazards arising from the substance or mixture

Endangering substances: carbon oxides

Advice: Cool containers exposed to fire with water. Decomposition, pressure build-up and bursting of containers may occur.

### 5.3. Advice for fire-fighters

Special protective equipment:

Appropriate breathing apparatus may be required.

Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

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## SECTION 6: Accidental Release Measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Information regarding personal protective measures, see section 8.

### 6.2. Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.

### 6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents. Ensure adequate ventilation.

### 6.4. Reference to other sections

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Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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## SECTION 7: Handling and Storage

### 7.1. Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Handle with care - avoid bumps, friction and impact. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. Solvent vapours are heavier than air and spread along floors. Vapour forms explosive mixtures with air. The relevant fire protection measures should be noted. Use explosion-proof equipment.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Suitable materials for containers: Carbon steel (Iron), tinned carbon steel (Tinplate)

Further information on storage conditions: Keep container dry. Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions.

Storage stability:

Storage temperature: < 40 °C

### 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

#### Components with occupational exposure limits

106-97-8: butane

TWA value 1,450 mg/m<sup>3</sup> ; 600 ppm (WEL/EH 40 (UK))

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112-34-5: 2-(2-butoxyethoxy)ethanol	STEL value 1,810 mg/m <sup>3</sup> ; 750 ppm (WEL/EH 40 (UK)) Ceiling limit value/factor: 15 min TWA value 67.5 mg/m <sup>3</sup> ; 10 ppm (WEL/EH 40 (UK)) TWA value 67.5 mg/m <sup>3</sup> ; 10 ppm (OEL (EU)) indicative STEL value 101.2 mg/m <sup>3</sup> ; 15 ppm (OEL (EU)) indicative STEL value 101.2 mg/m <sup>3</sup> ; 15 ppm (WEL/EH 40 (UK)) Ceiling limit value/factor: 15 min
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#### Biological limit values (BLV)

No data available.

#### Components with PNEC

112-34-5: 2-(2-butoxyethoxy)ethanol	freshwater: 1.1 mg/l marine water: 0.11 mg/l intermittent release: 11 mg/l sediment (freshwater): 4.4 mg/kg sediment (marine water): 0.44 mg/kg STP: 200 mg/l oral (secondary poisoning): 56 mg/kg soil: 0.32 mg/kg
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64742-53-6: Distillates (petroleum), hydrotreated light naphthenic	oral (secondary poisoning): 9.33 mg/kg
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#### Components with DNEL

112-34-5: 2-(2-butoxyethoxy)ethanol	worker: Long-term exposure - systemic and local effects, Inhalation: 67.5 mg/m <sup>3</sup> , 10 ppm worker: Short-term exposure - local effects, Inhalation: 101.2 mg/m <sup>3</sup> , 15 ppm worker: Long-term exposure- systemic effects, dermal: 83 mg/kg consumer: Long-term exposure - systemic and local effects, Inhalation: 40.5 mg/m <sup>3</sup> consumer: Short-term exposure - local effects, Inhalation: 60.7 mg/m <sup>3</sup> consumer: Long-term exposure- systemic effects, dermal: 50 mg/kg consumer: Long-term exposure- systemic effects, oral: 5 mg/kg
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## **8.2. Exposure controls**

#### Appropriate engineering controls

Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

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#### Personal protective equipment

##### Respiratory protection:

Respiratory protection required if exposure limit (if available) may be exceeded (Combination filter EN 14387 AX-P)

##### Hand protection:

nitrile rubber (Buna N)

Use suitable protective gloves made of nitrile rubber or butyl rubber. Please observe the glove manufacturer's instructions on permeability and rupture times as well as the specific workplace conditions.

Chemical resistant protective gloves (EN 374)

Further information on penetration time is available from the manufacturer of the glove.

The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).

##### Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

##### Body protection:

Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

#### General safety and hygiene measures

Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible.

Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

#### Environmental exposure controls

For information regarding environmental exposure controls, see Section 6.

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## **SECTION 9: Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

Form:	aerosol
Colour:	red
Odour:	of hydrocarbons
pH value:	substance/mixture is a gas
Melting point:	not determined
onset of boiling:	not determined

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Flash point:	> 93 °C The data given are those of the active ingredient. -60 °C Information applies to the propellant.	
Flammability:	Extremely flammable aerosol.	
Vapour pressure:	(20 °C) not determined	
Density:	(50 °C) not determined 0.86 g/cm <sup>3</sup> (20 °C) The data given are those of the active ingredient.	(DIN 51757)
Viscosity, kinematic:	(20 °C) not applicable	
Explosion hazard:	(40 °C) not applicable	
Fire promoting properties:	not explosive not fire-propagating	

## 9.2. Other information

Self heating ability:	It is not a substance capable of spontaneous heating.
Miscibility with water:	immiscible
Flow time:	not applicable

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

### 10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### 10.3. Possibility of hazardous reactions

Risk of bursting. Vapours may form explosive mixture with air.

### 10.4. Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid direct sunlight.

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## 10.5. Incompatible materials

Substances to avoid:

Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

## 10.6. Hazardous decomposition products

Possible decomposition products:

When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

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## SECTION 11: Toxicological Information

### 11.1. Information on toxicological effects

#### Acute toxicity

Assessment of acute toxicity:

Based on available Data, the classification criteria are not met.

#### Irritation

Assessment of irritating effects:

Not irritating to the skin. Eye contact causes irritation.

#### Respiratory/Skin sensitization

Assessment of sensitization:

Based on available Data, the classification criteria are not met.

#### Germ cell mutagenicity

Assessment of mutagenicity:

Based on available Data, the classification criteria are not met.

#### Carcinogenicity

Assessment of carcinogenicity:

Based on available Data, the classification criteria are not met.

#### Reproductive toxicity

Assessment of reproduction toxicity:

Based on available Data, the classification criteria are not met.

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#### Developmental toxicity

Assessment of teratogenicity:

Based on available Data, the classification criteria are not met.

#### Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on available Data, the classification criteria are not met.

#### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

Based on available Data, the classification criteria are not met.

#### Aspiration hazard

No aspiration hazard expected.

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## **SECTION 12: Ecological Information**

### **12.1. Toxicity**

Assessment of aquatic toxicity:

There are no test results available for this product. Do not allow to enter drains or waterways. The mixture has been assessed following regulation (EC) No 1272/2008 and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details.

### **12.2. Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):

No data available concerning biodegradation and elimination.

### **12.3. Bioaccumulative potential**

Bioaccumulation potential:

No data available.

### **12.4. Mobility in soil**

Assessment transport between environmental compartments:

Adsorption in soil: No data available.

### **12.5. Results of PBT and vPvB assessment**

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According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

### 12.6. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

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## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

Observe national and local legal requirements.  
No disposal via sewage or waste water systems.

Waste key:

Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Contaminated packaging:

Containers which are not properly emptied must be disposed pursuant to Directive 2008/98/EC

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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## SECTION 14: Transport Information

### Land transport

ADR

UN number	UN1950
UN proper shipping name:	AEROSOLS
Transport hazard class(es):	2.1
Packing group:	Not applicable
Environmental hazards:	no
Special precautions for user:	Tunnel code: D

RID

UN number	UN1950
UN proper shipping name:	AEROSOLS

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Transport hazard class(es): 2.1  
Packing group: Not applicable  
Environmental hazards: no  
Special precautions for user:

### **Inland waterway transport**

ADN

UN number: UN1950  
UN proper shipping name: AEROSOLS  
Transport hazard class(es): 2.1  
Packing group: Not applicable  
Environmental hazards: no  
Special precautions for user:

### **Transport in inland waterway vessel**

Not evaluated

### **Sea transport**

IMDG

UN number: UN 1950  
UN proper shipping name: AEROSOLS  
Transport hazard class(es): 2.1  
Packing group: Not applicable  
Environmental hazards: no  
Marine pollutant: NO  
Special precautions for user:

### **Air transport**

IATA/ICAO

UN number: UN 1950  
UN proper shipping name: AEROSOLS, FLAMMABLE  
Transport hazard class(es): 2.1  
Packing group: Not applicable  
Environmental hazards: No Mark as dangerous for the environment is needed  
Special precautions for user:

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#### **14.1. UN number**

See corresponding entries for "UN number" for the respective regulations in the tables above.

#### **14.2. UN proper shipping name**

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

#### **14.3. Transport hazard class(es)**

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

#### **14.4. Packing group**

See corresponding entries for "Packing group" for the respective regulations in the tables above.

#### **14.5. Environmental hazards**

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

#### **14.6. Special precautions for user**

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

#### **14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

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### **SECTION 15: Regulatory Information**

#### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

VOC content: 319.9 g/l

#### Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 28, 29, 52, 55, 3

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):

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Listed in above regulation: FLAMMABLE AEROSOLS 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids Category 1

## 15.2. Chemical Safety Assessment

Chemical Safety Assessment not required

## SECTION 16: Other Information

Literature and Data Sources: REACH-Regulation (EC) No. 1907/2006. CLP-Regulation (EC) No. 1272/2008.

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Eye Dam./Irrit.	Serious eye damage/eye irritation
Flam. Aerosol	Flammable aerosols
Repr.	Reproductive toxicity
STOT RE	Specific target organ toxicity — repeated exposure
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Asp. Tox.	Aspiration hazard
H222	Extremely flammable aerosol.
H229	Pressurized container: May burst if heated.
H319	Causes serious eye irritation.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs (Liver, Spleen) through prolonged or repeated exposure.
H413	May cause long lasting harmful effects to aquatic life.
H304	May be fatal if swallowed and enters airways.

### Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

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Vertical lines in the left hand margin indicate an amendment from the previous version.