

WEBAC 4420 Comp. A Version 2.0

Revision date 20-Dec-2024

Print date 20-Dec-2024

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

1.1 Product identifier

Trade name/designation

WEBAC 4420 Comp. A faserarmierte EP Schutzbeschichtung

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

Restricted to professional users.

Relevant identified uses

epoxy resin component

1.3 Details of the supplier of the safety data sheet

supplier

WEBAC-Chemie GmbH Fahrenberg 22 Telephone: +49 40 670570 22885 Barsbüttel Telefax: +49 40 6703227 Germany

Department responsible for information

E-mail (competent person)

1.4 Emergency telephone number

Giftinformationszentrum-Nord

Emergency telephone number: +49 551 192 40 available 24h/365days; Information will be provided in German and English

msds@webac.de

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Eye Irrit. 2; Serious eye damage/eye irritation; H319 Causes serious eye irritation. Skin Irrit. 2; Skin corrosion/irritation; H315 Causes skin irritation. Skin Sens. 1; Skin sensitisation; H317 May cause an allergic skin reaction. Aquatic Chronic 2; Hazardous to the aquatic environment; H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



GHS07 GHS09

Signal word

Warning

Hazard statements

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

,	
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection/face protection.
P391	Collect spillage.

Hazard components for labelling

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane



WEBAC 4420 Comp. A Version 2.0

Revision date 20-Dec-2024

Print date 20-Dec-2024

Supplemental hazard information

Contains epoxy constituents. May produce an allergic reaction.

EUH205 2.3 Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients.

3.2 Mixtures

Description

epoxy resin component

Hazardous ingredients

	CAS No. EC No. Index No.	Substance name REACH No. Classification according to Regulation (EC) No 1272/2008 [CLP]	weight-%
*	1675-54-3 216-823-5 603-073-00-2	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane 01-2119456619-26-xxxx Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Eye Irrit. 2 H319 / Aquatic Chronic 2 H411 Specific concentration limit (SCL) Eye Irrit. 2 H319: >= 5,00 / Skin Irrit. 2 H315: >= 5,00 ATE (dermal): = 23,000 mg/kg ATE (oral): = 15,000 mg/kg	25,0 <= 50,0
k	- 701-263-0 -	Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'- [methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4-(oxiran-2- ylmethoxy)benzyl]phenoxy)methyl)oxirane 01-2119454392-40-xxxx Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411 ATE (oral): > 5,000 mg/kg ATE (dermal): > 2,000 mg/kg	10,0 <= 25,0

Remark

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

Self-protection of the first aider

First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3 Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.



WEBAC 4420 Comp. A Version 2.0

Revision date 20-Dec-2024

Print date 20-Dec-2024

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO2), Powder, spray mist, (water)

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3 Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ventilate affected area. Do not breathe vapours.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

For containment

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

For cleaning up

Clean using cleansing agents. Do not use solvents.

6.4 Reference to other sections

Safe handling: see section 7 Personal protection equipment: refer to section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling

Avoid contact with skin, eyes and clothes. Avoid breathing spray.
Personal protection equipment: see section 8
Follow the legal protection and safety regulations.

Advices on general occupational hygiene

When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Access only for authorised persons. Smoking is forbidden.

Always keep in containers that correspond to the material of the original container. Store carefully closed containers upright to prevent any leaks. Do not empty containers with pressure - no pressure vessel!

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Do not store together with: Food and feedingstuffs

LGK10 - Combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions

Store in a well-ventilated and dry room at temperatures between 5 °C and 30 °C.

7.3 Specific end use(s)

Storage class

Observe technical data sheet.



WEBAC 4420 Comp. A Version 2.0

Revision date 20-Dec-2024

Print date 20-Dec-2024

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

	CAS No.	Substance name	Source	Long-term /short-term (Spitzenbegrenzung)
	14807-96-6	Talc (Mg3H2(SiO3)4)		10 / - (-) mg/m³ (inhalable fraction)
*	14807-96-6	Talc (Mg3H2(SiO3)4)		0.8 / - (-) mg/m ³ (respirable fraction)

Additional information

Long-term: Long-term occupational exposure limit value short-term: short-term occupational exposure limit value

Biological limit values

No data available

DNEL worker

	CAS No.	Substance name	DNEL type	DNEL value
*	1675-54-3	2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	DNEL long-term dermal (systemic)	0.75 mg/kg bw/day
*	1675-54-3	2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	DNEL long-term inhalative (systemic)	4.93 mg/m³
*	-	Reaction mass of 2,2'-[methylenebis(2,1- phenyleneoxymethylene)]bis(oxirane) and 2,2'- [methylenebis(4,1- phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4- (oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane	DNEL long-term dermal (systemic)	104.15 mg/kg bw/day
*	-	Reaction mass of 2,2'-[methylenebis(2,1- phenyleneoxymethylene)]bis(oxirane) and 2,2'- [methylenebis(4,1- phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4- (oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane	DNEL long-term inhalative (systemic)	29.39 mg/m³

PNEC

CAS No.	Substance name	PNEC type	PNEC Value
1675-54-3	2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	PNEC Secondary Poisoning	11 mg/kg
1675-54-3	2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	PNEC sewage treatment plant (STP)	10 mg/L
1675-54-3	2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	PNEC aquatic, freshwater	0.006 mg/L
1675-54-3	2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	PNEC aquatic, marine water	0.001 mg/L
1675-54-3	2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	PNEC sediment, marine water	0.034 mg/kg
1675-54-3	2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	PNEC sediment, freshwater	0.341 mg/kg
1675-54-3	2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	PNEC soil, freshwater	0.065 mg/kg
-	Reaction mass of 2,2'-[methylenebis(2,1- phenyleneoxymethylene)]bis(oxirane) and 2,2'- [methylenebis(4,1- phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4- (oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane	PNEC aquatic, marine water	0 mg/L
-	Reaction mass of 2,2'-[methylenebis(2,1- phenyleneoxymethylene)]bis(oxirane) and 2,2'- [methylenebis(4,1- phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4- (oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane	PNEC aquatic, freshwater	0.003 mg/L
-	Reaction mass of 2,2'-[methylenebis(2,1-	PNEC aquatic, intermittent	0.025 mg/L



WEBAC 4420 Comp. A Version 2.0

Revision date 20-Dec-2024

version 2.0	Revision date 20-Dec-2024		Print date 20-Dec-202
	phenyleneoxymethylene)]bis(oxirane) and 2,2'- [methylenebis(4,1- phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4- (oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane	release	
-	Reaction mass of 2,2'-[methylenebis(2,1- phenyleneoxymethylene)]bis(oxirane) and 2,2'- [methylenebis(4,1- phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4- (oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane	PNEC sewage treatment plant (STP)	10 mg/L
* -	Reaction mass of 2,2'-[methylenebis(2,1- phenyleneoxymethylene)]bis(oxirane) and 2,2'- [methylenebis(4,1- phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4- (oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane	PNEC sediment, marine water	0.029 mg/kg
* -	Reaction mass of 2,2'-[methylenebis(2,1- phenyleneoxymethylene)]bis(oxirane) and 2,2'- [methylenebis(4,1- phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4- (oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane	PNEC sediment, freshwater	0.294 mg/kg
* -	Reaction mass of 2,2'-[methylenebis(2,1- phenyleneoxymethylene)]bis(oxirane) and 2,2'- [methylenebis(4,1- phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4- (oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane	PNEC soil, freshwater	0.237 mg/kg

8.2 Exposure controls

Provide good ventilation. This can be achieved with local or room suction.

Personal protection equipment

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Hand protection

Suitable material: NBR (Nitrile rubber) Thickness of the glove material >= 0.4 mm Breakthrough time >= 480 min

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles: EN ISO 374

Skin protection

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection

Eye glasses with side protection: EN 166 Wear closely fitting protective glasses in case of splashes.

Body protection

Wear suitable protective clothing. Change contaminated, saturated clothing.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	grey
Odour	characteristic
рН	not applicable
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	> 101 °C



WEBAC 4420 Comp. A

Version 2.0	Revision date 20-Dec-2024	Print date 20-Dec-2024
flammability	not applicable	
Lower explosion limit at 20°C	not determined	
Upper explosion limit at 20°C	not determined	
Vapour pressure at 20°C	0.8 mbar	
Relative vapour density	not applicable	
Density at 20 °C	1.7 kg/l	
Water solubility at 20°C	practically insoluble	
Partition coefficient: n-octanol/	water see section 12	
Ignition temperature in °C	not determined	
Decomposition temperature	not determined	
Viscosity at 20 °C:	mPas	
particle characteristics	not applicable	

9.2 Other information

not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2 Chemical stability

Stable under recommended storage and handling conditions. Please note the expiry date.

10.3 Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4 Conditions to avoid

Protect from moisture. Avoid high temperatures or direct sunlight.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures e.g.: Carbon dioxide (CO2), Carbon monoxide, smoke.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

- * 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane
- LD50: dermal (Rabbit): = 23,000 mg/kg
- * LD50: oral (Rat): = 15,000 mg/kg
- Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane LD50: oral (Rat): > 5,000 mg/kg
- * LD50: dermal (Rat): > 2,000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Overall assessment on CMR properties

Revision date 20-Dec-2024

WEBAC 4420 Comp. A

Version 2.0



Print date 20-Dec-2024

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	Based on available data, the classification criteria are not met.	
	STOT-single exposure	
	Based on available data, the classification criteria are not met.	
	STOT-repeated exposure	
	Based on available data, the classification criteria are not met.	
	Aspiration hazard	
	Based on available data, the classification criteria are not met.	
1.2	Information on other hazards	
	Endocrine disrupting properties	
	This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.	i
δE	CTION 12: Ecological information	
2.1	Toxicity	
	Toxic to aquatic life with long lasting effects.	
	Algae toxicity 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	
	ErC50: = 11 mg/L (72 h)	
	Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1- phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane ErC50: = 1.8 mg/L (72 h)	
	Daphnia toxicity	
	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane EC50 = 1.8 mg/L (48 h)	
	Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1- phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane EC50 = 2.55 mg/L (48 h)	
	Fish toxicity	
	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane LC50: (Oncorhynchus mykiss (Rainbow trout)): = 2 mg/L (96 h)	
	Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1- phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane LC50: = 2.54 mg/L (96 h)	
2.2	Persistence and degradability	
	No information available.	
.3	Bioaccumulative potential	
	No information available.	
2.4	Mobility in soil	
	No information available.	
2.5	Results of PBT and vPvB assessment	
	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.	

12.6 Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Do not empty into drains; dispose of this material and its container in a safe way. Waste disposal according to directive 2008/98/ EC, covering waste and dangerous waste.

Waste codes/waste designations according to EWC/AVV



WEBAC 4420 Comp. A Version 2.0

Revision date 20-Dec-2024

080409* - Waste adhesives and sealants containing organic solvents or other dangerous substances Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Other disposal recommendations

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1 UN number or ID number UN 3082

14.2 UN proper shipping name

Land transport (ADR/RID)

UMWELTGEFÄHRDENDER STOFF, FLÜSSIG, N.A.G. (enthält BISPHENOL-A-EPICHLORHYDRINHARZE, BISPHENOL-F-EPICHLORHYDRINHARZE)

Sea transport (IMDG)

* Environmentally hazardous substance, liquid, n.o.s. (contains BISPHENOL-A-EPICHLORHYDRIN RESINS, BISPHENOL-F-EPICHLORHYDRIN RESINS)

Air transport (ICAO-TI / IATA-DGR)

* Environmentally hazardous substance, liquid, n.o.s. (contains BISPHENOL-A-EPICHLORHYDRIN RESINS, BISPHENOL-F-EPICHLORHYDRIN RESINS)

14.3 Transport hazard class(es)

	Land transport (ADR/RID)	9
	Sea transport (IMDG)	9
	Air transport (ICAO-TI / IATA-DGR)	9
14.4	Packing group	
	Land transport (ADR/RID)	
	Sea transport (IMDG)	111
	Air transport (ICAO-TI / IATA-DGR)	111

14.5 Environmental hazards

Land transport (ADR/RID)ENVIRONMENTALLY HAZARDOUSSea transport (IMDG)Marine pollutant / 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

14.6 Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

14.8 Additional information

Land transport (ADR/RID)

Tunnel restriction code: -Limited quantity (LQ): 5 ltr Hazard identification number (Kemler No.): 90

Sea transport (IMDG)

EmS-No.: F-A S-F Limited quantity (LQ): 5 ltr

Air transport (ICAO-TI / IATA-DGR)

not applicable

SECTION 15: Regulatory information

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

EU legislation

Restrictions of occupation



WEBAC 4420 Comp. A	
11 1 0 0	

Version 2.0

Revision date 20-Dec-2024

Print date 20-Dec-2024

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable. Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC value: 0 g/l

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

Hazard categories / Named dangerous substances

E2 Hazardous to the aquatic environment in Category Chronic 2 Quantity 1: 200t; Quantity 2: 500t

National regulations

Observe in addition any national regulations!

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

List of relevant hazard statements and/or precautionary statements from sections 2 to 15

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Eye Irrit. 2	Calculation method.
Skin Irrit. 2	Calculation method.
Skin Sens. 1	Calculation method.
Aquatic Chronic 2	Calculation method.

Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

OEL: Occupational Exposure Limit Value

BLV: Biological limit values

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging

CMR: Carcinogenic, Mutagenic and Reprotoxic

DIN: German Institute for Standardization / German industrial standard

DNEL: Derived No-Effect Level

EAKV: European Waste Catalogue Directive

EC: Effective Concentration

EC: European Community

EN: European Standard

IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

ICAO-TI: International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air IMDG Code: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

LC: Lethal Concentration

LD: Lethal Dose

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships OECD: Organisation for Economic Cooperation and Development PBT: persistent, bioaccumulative, toxic PNEC: Predicted No Effect Concentration RID: Regulations concerning the International Carriage of Dangerous Goods by Rail UN: United Nations VOC: Volatile Organic Compounds vPvB: very persistent and very bioaccumulative

Indication of changes

* Data changed compared with the previous version.