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

### 1.1. Product identifier

Trade name/designation WEBAC 4520 Comp. A  
Epoxy Putty

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

#### Relevant identified uses

epoxy resin component

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

#### supplier (manufacturer/importer/downstream user/distributor)

WEBAC-Chemie GmbH

Fahrenberg 22  
22885 Barsbüttel / Hamburg  
GERMANY

Telephone: +49 40 67057-0

Telefax: +49 40 6703227

#### Department responsible for information:

laboratory

E-mail

sdb@webac.de

### 1.4. Emergency telephone number

Giftinformationszentrum-Nord +49 551 19240

## 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].

Skin Irrit. 2 / H315

Skin corrosion/irritation

Causes skin irritation.

Eye Irrit. 2 / H319

Serious eye damage/eye irritation

Causes serious eye irritation.

Skin Sens. 1 / H317

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Aquatic Chronic 2 / H411

Hazardous to the aquatic environment

Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

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

#### Hazard pictograms



Warning

#### Hazard statements

H315

Causes skin irritation.

H319

Causes serious eye 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/face protection.

P391

Collect spillage.

#### Hazard components for labelling

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

reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)

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

Phenol, styrenated

#### Supplemental hazard information

EUH205

Contains epoxy constituents. May produce an allergic reaction.

### 2.3. Other hazards

No information available.

## SECTION 3: Composition / information on ingredients

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### 3.2. Mixtures

**Description** epoxy resin component

#### Hazardous ingredients

| EC No.<br>CAS No.<br>INDEX No.        | REACH No.<br>Designation<br>classification: // Remark   | weight-% |
|---------------------------------------|---|----------|
| 216-823-5<br>1675-54-3                | 01-2119456619-26-xxxx<br>2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane<br>Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411<br>Specific concentration limit (SCL): Skin Irrit. 2 H315 >= 5 / Eye Irrit. 2 H319 >= 5                           | 10 - 25  |
| 618-939-5<br>933999-84-9              | 01-2119463471-41-xxxx<br>reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)<br>Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412   | 2,5 - 10 |
| 254-052-6<br>38640-62-9               | 01-2119565150-48-xxxx<br>Bis(isopropyl)naphthalene<br>Asp. Tox. 1 H304 / Aquatic Chronic 1 H410 (M = 1)   | 2,5 - 10 |
| 701-263-0                             | 01-2119454392-40-xxxx<br>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<br>Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411 | 2,5 - 10 |
| 262-975-0<br>61788-44-1               | 01-2119980970-27-xxxx<br>Phenol, styrenated<br>Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411  | 2,5 - 10 |
| 203-961-6<br>112-34-5<br>603-096-00-8 | 01-2119475104-44-xxxx<br>2-(2-butoxyethoxy)ethanol<br>Eye Irrit. 2 H319   | 2,5 - 10 |

#### Additional information

Full text of classification: 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.

##### In case of 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

Take off immediately all contaminated clothing. 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.

##### After ingestion

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

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

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

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

No information available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam, carbon dioxide, 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. 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

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).

### 6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Follow the legal protection and safety regulations.

#### Further information

Vapours are heavier than air.

### 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). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Always keep in containers that correspond to the material of the original container.

#### Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

#### Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 30 °C. Protect from heat and direct sunlight.

### 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit values:

not applicable

#### DNEL:

2-(2-butoxyethoxy)ethanol

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830

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INDEX No. 603-096-00-8 / EC No. 203-961-6 / CAS No. 112-34-5

DNEL long-term dermal (systemic), Workers: 20 mg/kg bw/day

DNEL acute inhalative (local), Workers: 101,2 mg/m<sup>3</sup>

DNEL long-term inhalative (local), Workers: 67,5 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 67,5 mg/m<sup>3</sup>

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

EC No. 216-823-5 / CAS No. 1675-54-3

DNEL long-term dermal (systemic), Workers: 0,75 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 4,93 mg/m<sup>3</sup>

Bis(isopropyl)naphthalene

EC No. 254-052-6 / CAS No. 38640-62-9

DNEL long-term dermal (systemic), Workers: 4,3 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 30 mg/m<sup>3</sup>

Phenol, styrenated

EC No. 262-975-0 / CAS No. 61788-44-1

DNEL long-term dermal (systemic), Workers: 2,92 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 4,11 mg/m<sup>3</sup>

reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)

EC No. 618-939-5 / CAS No. 933999-84-9

DNEL long-term dermal (systemic), Workers: 2,8 mg/kg bw/day

DNEL acute inhalative (systemic), Workers: 4,9 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 4,9 mg/m<sup>3</sup>

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

EC No. 701-263-0

DNEL long-term dermal (systemic), Workers: 104,15 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 29,39 mg/m<sup>3</sup>

**PNEC:**

2-(2-butoxyethoxy)ethanol

INDEX No. 603-096-00-8 / EC No. 203-961-6 / CAS No. 112-34-5

PNEC aquatic, freshwater: 1 mg/L

PNEC aquatic, marine water: 0,1 mg/L

PNEC aquatic, intermittent release: 3,9 mg/L

PNEC sediment, freshwater: 4 mg/kg

PNEC sediment, marine water: 0,4 mg/kg

PNEC, soil: 0,4 mg/kg

PNEC sewage treatment plant (STP): 200 mg/L

PNEC Secondary Poisoning: 56 mg/kg

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

EC No. 216-823-5 / CAS No. 1675-54-3

PNEC aquatic, freshwater: 0,006 mg/L

PNEC aquatic, marine water: 0,001 mg/L

PNEC sediment, freshwater: 0,341 mg/kg

PNEC sediment, marine water: 0,034 mg/kg

PNEC, soil: 0,065 mg/kg

PNEC sewage treatment plant (STP): 10 mg/L

PNEC Secondary Poisoning: 11 mg/kg

Bis(isopropyl)naphthalene

EC No. 254-052-6 / CAS No. 38640-62-9

PNEC aquatic, freshwater: 0,26 x10<sup>-3</sup> mg/L

PNEC sediment, freshwater: 0,94 mg/kg

PNEC sediment, marine water: 0,094 mg/kg

PNEC, soil: 0,1872 mg/kg

PNEC sewage treatment plant (STP): 0,15 mg/L

Phenol, styrenated

EC No. 262-975-0 / CAS No. 61788-44-1

PNEC aquatic, freshwater: 11,5 x10<sup>-3</sup> mg/L

PNEC aquatic, marine water: 1,15 x10<sup>-3</sup> mg/L

PNEC aquatic, intermittent release: 13,5 x10<sup>-3</sup> mg/L

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PNEC sediment, freshwater: 1,564 mg/kg  
PNEC sediment, marine water: 0,1564 mg/kg  
PNEC, soil: 0,3052 mg/kg  
PNEC sewage treatment plant (STP): 10 mg/L

reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)

EC No. 618-939-5 / CAS No. 933999-84-9

PNEC aquatic, freshwater: 0,0115 mg/L  
PNEC aquatic, marine water: 0,0115 x10<sup>-1</sup> mg/L  
PNEC aquatic, intermittent release: 0,115 mg/L  
PNEC sediment, freshwater: 0,283 mg/kg  
PNEC sediment, marine water: 0,0283 mg/kg  
PNEC, soil: 0,223 mg/kg  
PNEC sewage treatment plant (STP): 1 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

EC No. 701-263-0

PNEC aquatic, freshwater: 0,003 mg/L  
PNEC aquatic, marine water: 0,0003 mg/L  
PNEC aquatic, intermittent release: 0,025 mg/L  
PNEC sediment, freshwater: 0,294 mg/kg  
PNEC sediment, marine water: 0,0294 mg/kg  
PNEC, soil: 0,237 mg/kg  
PNEC sewage treatment plant (STP): 10 mg/L

## 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. In case of inadequate ventilation wear respiratory protection.

### Personal protection equipment

#### **Respiratory protection**

Suitable respiratory protection apparatus:

Usually no personal respiratory protection necessary.

#### **Hand protection**

For prolonged or repeated handling the following glove material must be used: nitrile rubber or butyl rubber

Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.

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

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

#### **Eye/face protection**

Wear eye glasses with side protection according to EN 166.

#### **Body protection**

Wear suitable protective clothing.

#### **Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

## **SECTION 9: Physical and chemical properties**

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

#### **Appearance:**

**Physical state:**

**Colour:**

**Liquid**

**refer to label**

**Odour:**

**characteristic**

**Odour threshold:**

**not determined**

**pH at 20 °C:**

**not applicable**

**Melting point/freezing point:**

**not applicable**

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|  |  |
|--|--|
| <b>Initial boiling point and boiling range:</b>      | <b>not applicable</b>                              |
| <b>Flash point:</b>                                  | <b>&gt; 101 °C</b><br>Method: DIN 53213            |
| <b>flammability</b>                                  |  |
| <b>Burning time (s):</b>                             | <b>not applicable</b>                              |
| <b>Upper/lower flammability or explosive limits:</b> |  |
| <b>Lower explosion limit:</b>                        | <b>not applicable</b>                              |
| <b>Upper explosion limit:</b>                        | <b>not applicable</b>                              |
| <b>Vapour pressure at 20 °C:</b>                     | <b>0,13 mbar</b><br>Method: calculated             |
| <b>Relative density:</b>                             |  |
| <b>Density at 20 °C:</b>                             | <b>1,55 g/cm<sup>3</sup></b><br>Method: calculated |
| <b>Solubility(ies):</b>                              |  |
| <b>Water solubility (g/L) at 20 °C:</b>              | <b>insoluble</b>                                   |
| <b>Partition coefficient: n-octanol/water:</b>       | <b>see section 12</b>                              |
| <b>Auto-ignition temperature:</b>                    | <b>not applicable</b>                              |
| <b>Decomposition temperature:</b>                    | <b>not determined</b>                              |
| <b>Viscosity at °C:</b>                              | <b>pasty</b>                                       |
| <b>Explosive properties:</b>                         | <b>not applicable</b>                              |
| <b>Oxidising properties:</b>                         | <b>not applicable</b>                              |
| 9.2. <b>Other information</b>                        |  |
| <b>Solvent</b>                                       |  |
| <b>Organic solvents:</b>                             | <b>0 weight-%</b>                                  |

## SECTION 10: Stability and reactivity

- 10.1. **Reactivity**  
No information available.
- 10.2. **Chemical stability**  
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.
- 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**  
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.
- 10.5. **Incompatible materials**  
not applicable
- 10.6. **Hazardous decomposition products**  
Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

## SECTION 11: Toxicological information

- Classification according to Regulation (EC) No 1272/2008 [CLP]  
No data on preparation itself available.
- 11.1. **Information on toxicological effects**
- Acute toxicity**
- 2-(2-butoxyethoxy)ethanol  
oral, LD50, Rat: 3384 mg/kg  
dermal, LD50, Rabbit: 2700 mg/kg
- 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane  
oral, LD50, Rat: 15000 mg/kg  
dermal, LD50, Rabbit: 23000 mg/kg

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Phenol, styrenated

oral, LD50, Rat: > 2000 mg/kg  
dermal, LD50, Rat: > 2000 mg/kg

reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)

oral, LD50, Rat: 2190 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

oral, LD50, Rat: > 5000 mg/kg  
dermal, LD50, Rat: > 2000 mg/kg

**Skin corrosion/irritation; Serious eye damage/eye irritation**

Causes skin irritation.

Causes serious eye irritation.

**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

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

**STOT-single exposure; 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.

**Practical experience/human evidence**

No information available.

**Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

**SECTION 12: Ecological information**

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

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

**12.1. Toxicity**

2-(2-butoxyethoxy)ethanol

Fish toxicity, LC50, Lepomis macrochirus (Bluegill): 1300 mg/L (96 h)

Fish toxicity, LC50, Leuciscus idus (golden orfe): 2750 mg/L (48 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 2850 mg/L (24 h)

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

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 2 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna: 1,8 mg/L (48 h)

Algae toxicity, ErC50: 11 mg/L (72 h)

reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)

Fish toxicity, LC50, Leuciscus idus (golden orfe): 30 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna: 47 mg/L (48 h)

Algae toxicity, ErC50: 23,1 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

Fish toxicity, LC50, fish: 2,54 mg/L (96 h)

**Long-term Ecotoxicity**

Toxic to aquatic life with long lasting effects.

2-(2-butoxyethoxy)ethanol

Algae toxicity, NOEC, Scenedesmus subspicatus: > 100 mg/L (96 h)

**12.2. Persistence and degradability**

2-(2-butoxyethoxy)ethanol

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Degradation: 76 % (28 D)  
Method: OECD 301D/ EEC 92/69/V, C.4-E  
Readily biodegradable (according to OECD criteria).

**12.3. Bioaccumulative potential**

2-(2-butoxyethoxy)ethanol  
Partition coefficient: n-octanol/water: 0,56  
No indication of bioaccumulation potential.

**Bioconcentration factor (BCF)**

Toxicological data are not available.

**12.4. Mobility in soil**

Toxicological data are not available.

**12.5. 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. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Appropriate disposal / Product Recommendation**

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Dispose of waste according to applicable legislation.

**List of proposed waste codes/waste designations in accordance with EWC**

070208\* other still bottoms and reaction residues

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

**Appropriate disposal / Package Recommendation**

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

**SECTION 14: Transport information**

**14.1. UN number**

UN 3082

**14.2. UN proper shipping name**

Land transport (ADR/RID):

Environmentally hazardous substance, liquid, n.o.s.  
(EPOXIDE RESIN)

Sea transport (IMDG):

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(EPOXIDE RESIN)

Air transport (ICAO-TI / IATA-DGR):

Environmentally hazardous substance, liquid, n.o.s.  
(EPOXIDE RESIN)

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

9

**14.4. Packing group**

III

**14.5. Environmental hazards**

Land transport (ADR/RID)

UMWELTGEFÄHRDEND

Marine pollutant

p / EPOXIDE RESIN

**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

**Further information**

**Land transport (ADR/RID)**



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tunnel restriction code -

**Sea transport (IMDG)**

EmS-No. F-A, S-F

**Air transport (ICAO-TI / IATA-DGR)**

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

not applicable

**SECTION 15: Regulatory information**

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

**EU legislation**

**Directive 2010/75/EU on industrial emissions**

VOC-value (in g/L): 46,359

**National regulations**

**Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

**MAL-code (1993):**

00-5

**15.2. Chemical Safety Assessment**

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

**SECTION 16: Other information**

**Full text of classification in section 3:**

|                          |                                      |   |
|--------------------------|--------------------------------------|---|
| Skin Irrit. 2 / H315     | Skin corrosion/irritation            | Causes skin irritation.                               |
| Eye Irrit. 2 / H319      | Serious eye damage/eye irritation    | Causes serious eye irritation.                        |
| Skin Sens. 1 / H317      | Respiratory or skin sensitisation    | May cause an allergic skin reaction.                  |
| Aquatic Chronic 2 / H411 | Hazardous to the aquatic environment | Toxic to aquatic life with long lasting effects.      |
| Aquatic Chronic 3 / H412 | Hazardous to the aquatic environment | Harmful to aquatic life with long lasting effects.    |
| Asp. Tox. 1 / H304       | Aspiration hazard                    | May be fatal if swallowed and enters airways.         |
| Aquatic Chronic 1 / H410 | Hazardous to the aquatic environment | Very toxic to aquatic life with long lasting effects. |

**Classification procedure**

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

|                   |                                      |                     |
|-------------------|--------------------------------------|---------------------|
| Skin Irrit. 2     | Skin corrosion/irritation            | Calculation method. |
| Eye Irrit. 2      | Serious eye damage/eye irritation    | Calculation method. |
| Skin Sens. 1      | Respiratory or skin sensitisation    | Calculation method. |
| Aquatic Chronic 2 | Hazardous to the aquatic environment | 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 Value  |
| 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   |

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830

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|        |   |
|--------|---|
| 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   |
| REACH  | Registration, Evaluation, Authorisation and Restriction of Chemicals                        |
| RID    | Regulations concerning the International Carriage of Dangerous Goods by Rail                |
| UN     | United Nations  |
| VOC    | Volatile Organic Compounds  |
| vPvB   | very persistent and very bioaccumulative  |

**Further information**

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.