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

### 1.1. Product identifier

Trade name/designation WEBAC 4204 Comp. B  
Epoxy Resin

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

#### Relevant identified uses

hardener/amine component for epoxy resin  
Restricted to professional users.

### 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  
24 hr. emergency phone number

## 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].

Acute Tox. 4 / H302

Acute toxicity (oral)

Harmful if swallowed.

Skin Corr. 1B / H314

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Eye Dam. 1 / H318

Serious eye damage/eye irritation

Causes serious eye damage.

Skin Sens. 1 / H317

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Repr. 2 / H361

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

STOT RE 2 / H373

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 3 / H412

Hazardous to the aquatic environment

Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

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

#### Hazard pictograms



Danger

#### Hazard statements

H302

Harmful if swallowed.

H314

Causes severe skin burns and eye damage.

H317

May cause an allergic skin reaction.

H361

Suspected of damaging fertility or the unborn child.

H373

May cause damage to organs through prolonged or repeated exposure.

H412

Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P260

Do not breathe vapour.

P280

Wear protective gloves and eye/face protection.

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER or doctor/ physician.

#### Hazard components for labelling

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878

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Methyleneoxide, polymer with benzenamine, hydrogenated  
Amines, polyethylenepoly, triethylenetetramine fraction  
2-piperazin-1-ylethylamine  
m-phenylenebis(methylamine)  
Hydrocarbons, C9-unsaturated, polymerized  
4,4'-methylenebis(cyclohexylamine)

**Supplemental hazard information**

not applicable

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Description** hardener/amine component for epoxy resin

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

EC No. CAS No. Index No.	REACH No. Designation classification: // Remark	weight-%
292-588-2 90640-67-8	01-2119487919-13-xxxx Amines, polyethylenepoly, triethylenetetramine fraction Acute Tox. 4 H312 / Skin Corr. 1B H314 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412	25 - 50
202-859-9 100-51-6 603-057-00-5 216-032-5 1477-55-0	01-2119492630-38-xxxx benzyl alcohol Acute Tox. 4 H302 / Acute Tox. 4 H332 / Eye Irrit. 2 H319 01-2119480150-50-xxxx m-phenylenebis(methylamine) Acute Tox. 4 H302 / Acute Tox. 4 H332 / Skin Corr. 1B H314 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412	10 - 25  10 - 25
603-894-6 135108-88-2	01-2119983522-33-xxxx Methyleneoxide, polymer with benzenamine, hydrogenated Acute Tox. 4 H302 / Skin Corr. 1C H314 / Skin Sens. 1 H317 / STOT RE 2 H373 / Aquatic Chronic 3 H412	10 - 25
205-411-0 140-31-8 612-105-00-4	01-2119471486-30-xxxx 2-piperazin-1-ylethylamine Acute Tox. 4 H302 / Acute Tox. 3 H311 / Skin Corr. 1B H314 / Skin Sens. 1 H317 / Repr. 2 H361 / STOT RE 1 H372 / Aquatic Chronic 3 H412	2,5 - 10
618-561-0 9046-10-0	01-2119557899-12-xxxx Poly(oxypropylene)diamine Skin Corr. 1C H314 / Aquatic Chronic 3 H412	2,5 - 10
701-299-7 71302-83-5	01-2119555292-40-xxxx Hydrocarbons, C9-unsaturated, polymerized Skin Sens. 1A H317 / Asp. Tox. 1 H304 / Aquatic Chronic 3 H412	2,5 - 10
217-168-8 1761-71-3	01-2119541673-38-xxxx 4,4'-methylenebis(cyclohexylamine) Acute Tox. 4 H302 / Skin Corr. 1B H314 / Skin Sens. 1B H317 / STOT RE 2 H373	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.

**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.

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. When using do not eat, drink or smoke. Follow the legal protection and safety regulations. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel!

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. 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. Keep container tightly closed.

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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:**

benzyl alcohol

Index No. 603-057-00-5 / EC No. 202-859-9 / CAS No. 100-51-6

DNEL acute dermal, short-term (systemic), Workers: 47 mg/kg bw/day

DNEL long-term dermal (systemic), Workers: 9,5 mg/kg bw/day

DNEL acute inhalative (systemic), Workers: 450 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 90 mg/m<sup>3</sup>

2-piperazin-1-ylethylamine

Index No. 612-105-00-4 / EC No. 205-411-0 / CAS No. 140-31-8

DNEL acute dermal, short-term (local), Workers: 4 mg/dm<sup>2</sup>

DNEL acute dermal, short-term (systemic), Workers: 20 mg/kg

DNEL long-term dermal (local), Workers: 0,6 mg/dm<sup>2</sup>

DNEL long-term dermal (systemic), Workers: 3,33 mg/kg bw/day

DNEL acute inhalative (systemic), Workers: 21,4 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 3,6 mg/m<sup>3</sup>

m-phenylenebis(methylamine)

EC No. 216-032-5 / CAS No. 1477-55-0

DNEL long-term dermal (systemic), Workers: 0,33 mg/kg

DNEL long-term inhalative (local), Workers: 0,2 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 1,2 mg/m<sup>3</sup>

4,4'-methylenebis(cyclohexylamine)

EC No. 217-168-8 / CAS No. 1761-71-3

DNEL long-term dermal (systemic), Workers: 0,1 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 1 mg/m<sup>3</sup>

Poly(oxypropylene)diamine

EC No. 618-561-0 / CAS No. 9046-10-0

DNEL long-term dermal (local), Workers: 62,3 mg/dm<sup>2</sup>

DNEL long-term dermal (systemic), Workers: 2,5 mg/kg bw/day

**PNEC:**

benzyl alcohol

Index No. 603-057-00-5 / EC No. 202-859-9 / CAS No. 100-51-6

PNEC aquatic, freshwater: 1 mg/L

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

PNEC aquatic, intermittent release: 2,3 mg/L

PNEC sediment, freshwater: 5,27 mg/kg

PNEC, soil: 0,456 mg/kg

PNEC sewage treatment plant (STP): 39 mg/L

2-piperazin-1-ylethylamine

Index No. 612-105-00-4 / EC No. 205-411-0 / CAS No. 140-31-8

PNEC aquatic, freshwater: 0,058 mg/L

PNEC aquatic, marine water: 0,0058 mg/L

PNEC aquatic, intermittent release: 0,58 mg/L

PNEC sediment, freshwater: 215 mg/kg

PNEC sediment, marine water: 21,5 mg/kg

PNEC, soil: 42,9 mg/kg

PNEC sewage treatment plant (STP): 250 mg/L

m-phenylenebis(methylamine)

EC No. 216-032-5 / CAS No. 1477-55-0

PNEC aquatic, freshwater: 0,094 mg/L

PNEC aquatic, marine water: 0,0094 mg/L

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PNEC aquatic, intermittent release: 0,152 mg/L  
PNEC sediment, freshwater: 0,43 mg/kg  
PNEC sediment, marine water: 0,043 mg/kg  
PNEC, soil: 0,045 mg/kg  
PNEC sewage treatment plant (STP): 10 mg/L

4,4'-methylenebis(cyclohexylamine)

EC No. 217-168-8 / CAS No. 1761-71-3

PNEC aquatic, freshwater: 0,008 mg/L  
PNEC aquatic, marine water: 0,0008 mg/L  
PNEC aquatic, intermittent release: 0,08 mg/L  
PNEC sediment, freshwater: 0,39 mg/kg  
PNEC sediment, marine water: 0,039 mg/kg  
PNEC, soil: 0,072 mg/kg  
PNEC sewage treatment plant (STP): 80 mg/L

Poly(oxypropylene)diamine

EC No. 618-561-0 / CAS No. 9046-10-0

PNEC aquatic, freshwater: 0,015 mg/L  
PNEC aquatic, marine water: 0,0142 mg/L  
PNEC aquatic, intermittent release: 0,15 mg/L  
PNEC sediment, freshwater: 0,132 mg/kg  
PNEC sediment, marine water: 0,125 mg/kg  
PNEC, soil: 0,0176 mg/kg  
PNEC sewage treatment plant (STP): 7,5 mg/L  
PNEC Secondary Poisoning: 6,93 mg/kg

## 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.

### Personal protection equipment

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Use only respiratory protection equipment with CE-symbol including four digit test number.

Suitable respiratory protection apparatus: Usually no personal respirative 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: > 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. Wear closely fitting protective glasses in case of splashes.

#### **Body protection**

Wear suitable protective clothing. Wear work clothes with long sleeves. Remove contaminated, saturated clothing immediately.

#### **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

<b>Physical state:</b>	<b>Liquid</b>
<b>Colour:</b>	<b>yellow</b>
<b>Odour:</b>	<b>like amine</b>
<b>Odour threshold:</b>	<b>not determined</b>
<b>Melting point/freezing point:</b>	<b>not applicable</b>

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<b>Initial boiling point and boiling range:</b>	<b>not determined</b>
<b>Flammability</b>	<b>not applicable</b>
<b>Lower and upper explosion limit:</b>	
<b>Lower explosion limit:</b>	<b>not determined</b>
<b>Upper explosion limit:</b>	<b>not determined</b>
<b>Flash point:</b>	<b>&gt; 101 °C</b> Method: DIN 53213
<b>Auto-ignition temperature:</b>	<b>not determined</b>
<b>Decomposition temperature:</b>	<b>not determined</b>
<b>pH at 20 °C:</b>	<b>not applicable</b>
<b>Cinematic viscosity (40°C):</b>	<b>&gt; 20,5 mm<sup>2</sup>/s</b>
<b>Solubility(ies):</b>	
<b>Water solubility at 20 °C:</b>	<b>insoluble</b>
<b>Partition coefficient: n-octanol/water:</b>	<b>see section 12</b>
<b>Vapour pressure at 20 °C:</b>	<b>0,0897 mbar</b> Method: calculated
<b>Density and/or relative density:</b>	
<b>Density at 20 °C:</b>	<b>0,99 g/cm<sup>3</sup></b> Method: calculated
<b>Relative vapour density:</b>	<b>not applicable</b>
<b>particle characteristics:</b>	<b>not applicable</b>
<b>9.2. Other information</b>	
<b>solvent content:</b>	
<b>Organic solvents:</b>	<b>0 weight-%</b>

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No further relevant 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

No hazardous reaction when handled and stored according to provisions.

### 10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

### 10.5. Incompatible materials

No further relevant information available.

### 10.6. Hazardous decomposition products

No further relevant information available.

## SECTION 11: Toxicological information

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

#### Acute toxicity

Harmful if swallowed.

benzyl alcohol

oral, LD50, Rat: 1230 mg/kg

dermal, LD50, Rabbit: 2000 mg/kg

inhalative (dust and mist), LC50, Rat: > 4,178 mg/L (4 h)

2-piperazin-1-ylethylamine

oral, LD50, Rat: 2000 mg/kg



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dermal, LD50, Rabbit: 866 mg/kg  
Method: literature value  
m-phenylenebis(methylamine)  
oral, LD50, Rat: 930 mg/kg  
dermal, LD50, Rabbit: > 3100 mg/kg  
4,4'-methylenebis(cyclohexylamine)  
oral, LD50, Rat: 625 mg/kg  
dermal, LD50, Rabbit: 2110 mg/kg  
Amines, polyethylenepoly, triethylenetetramine fraction  
oral, LD50, Rat: 1716 mg/kg  
dermal, LD50, Rabbit: 1465 mg/kg  
oral, LD50, Mouse: 1600 mg/kg  
oral, LD50, Rabbit: 5500 mg/kg  
Methyleneoxide, polymer with benzenamine, hydrogenated  
oral, LD50, Rat: 367 mg/kg  
dermal, LD50, Rabbit: > 2000 mg/kg  
Poly(oxypropylene)diamine  
oral, LD50, Rat: 2885 mg/kg  
dermal, LD50, Rabbit: 2980 mg/kg

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

Causes severe skin burns and eye damage.

**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

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

Suspected of damaging fertility or the unborn child.

**STOT-single exposure; STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**

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

**Practical experience/human evidence**

No further relevant 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.

11.2. **Information on other hazards**

**Endocrine disrupting properties**

No information available.

**SECTION 12: Ecological information**

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

Do not allow to enter into surface water or drains.

12.1. **Toxicity**

benzyl alcohol

Fish toxicity, LC50: 460 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 230 mg/L (48 h)

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 770 mg/L (72 h)

2-piperazin-1-ylethylamine

Fish toxicity, LC50, Poecilia reticulata (Guppy): 368 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 58 mg/L (48 h)

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 1000 mg/L (72 h)

m-phenylenebis(methylamine)

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): > 100 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 15,2 mg/L (48 h)

Algae toxicity, ErC50, Scenedesmus subspicatus: 12 mg/L (72 h)

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Fish toxicity, LC50, Danio rerio (zebrafish): > 100 mg/L (96 h)

Poly(oxypropylene)diamine

Fish toxicity, LC50, Leuciscus idus (golden orfe): > 15 mg/L (96 h)

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 15 mg/L (72 h)

Bacteria toxicity, NOEC, Oncorhynchus mykiss (Rainbow trout): 15 mg/L (96 h)

#### Long-term Ecotoxicity

Harmful to aquatic life with long lasting effects.

benzyl alcohol

Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 310 mg/L (72 h)

m-phenylenebis(methylamine)

Algae toxicity, ErC50, Scenedesmus subspicatus: 12 mg/L (72 h)

#### 12.2. Persistence and degradability

2-piperazin-1-ylethylamine

:

Not readily biodegradable (according to OECD criteria)

#### 12.3. Bioaccumulative potential

Toxicological data are not available.

#### 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. Endocrine disrupting properties

No information available.

#### 12.7. Other adverse effects

No information available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Appropriate disposal / Product Recommendation

Liquid product may not be disposed of with household waste or landfilled. Do not allow to enter into drains/waters or in the soil. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

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

080409\* waste adhesives and sealants containing organic solvents or other dangerous substances

\*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 or ID number

UN 2735

#### 14.2. UN proper shipping name

Land transport (ADR/RID):

Amines, liquid, corrosive, n.o.s.  
(TRIETHYLENTETRAMINE)

Sea transport (IMDG):

AMINES, LIQUID, CORROSIVE, N.O.S.  
(TRIETHYLENTETRAMINE)

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

Amines, liquid, corrosive, n.o.s.  
(TRIETHYLENTETRAMINE)

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



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14.4. **Packing group**

III

14.5. **Environmental hazards**

Land transport (ADR/RID) not applicable

Marine pollutant not applicable

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)**

Tunnel restriction code E

**Sea transport (IMDG)**

EmS-No. F-A, S-B

14.7. **Maritime transport in bulk according to IMO instruments**

No transport as bulk according IBC - Code.

**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 [Industrial Emissions Directive]**

VOC-value (in g/L): 86,000

**Directive 2004/42/EC on the limitation of emissions of volatile organic compounds**

VOC product category: (Cat. A/j) ; VOC limit value: 500 g/l

Maximum VOC content of the product in a ready to use condition (in g/L): 86,000

**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 juveniles according to the 'juvenile work protection guideline' (94/33/EC).

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:**

Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Skin Corr. 1B / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Corr. 1C / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
STOT RE 2 / H373	STOT-repeated exposure	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Acute Tox. 3 / H311	Acute toxicity (dermal)	Toxic in contact with skin.
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
STOT RE 1 / H372	STOT-repeated exposure	Causes damage to organs (or state all organs

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878

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Skin Sens. 1A / H317 Respiratory or skin sensitisation  
Asp. Tox. 1 / H304 Aspiration hazard  
Skin Sens. 1B / H317 Respiratory or skin sensitisation

affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

May cause an allergic skin reaction.  
May be fatal if swallowed and enters airways.  
May cause an allergic skin reaction.

**Classification procedure**

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

Acute Tox. 4	Acute toxicity (oral)	Calculation method.
Skin Corr. 1B	Skin corrosion/irritation	Calculation method.
Eye Dam. 1	Serious eye damage/eye irritation	Calculation method.
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.
Repr. 2	Reproductive toxicity	Calculation method.
STOT RE 2	STOT-repeated exposure	Calculation method.
Aquatic Chronic 3	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
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.