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

1.1. Product identifier

Trade name/designation WEBAC 4530 Comp. B
Epoxy Putty

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

Relevant identified uses

hardener/amine component for epoxy resin

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

Dept. 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 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.

STOT RE 2 / H373

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

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



Danger

Hazard statements

H314

Causes severe skin burns and eye damage.

H317

May cause an allergic skin reaction.

H373

May cause damage to organs through prolonged or repeated exposure.

H411

Toxic to aquatic life with long lasting effects.

Precautionary statements

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P273

Avoid release to the environment.

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

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Phenol, styrenated

2-piperazin-1-ylethylamine

3-aminopropylidimethylamine

4,4'-Methylenbis(cyclohexylamine)

Phenol, methylstyrenated

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according to Regulation (EC) No. 1907/2006 (REACH)
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Polymer
 Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine
 Amines, polyethylenepoly, triethylenetetramine fraction
 m-phenylenebis(methylamine)
 2,2,4-trimethylhexane-1,6-diamine

Supplemental Hazard information (EU)

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

Hazardous ingredients

EC No. CAS No. INDEX No.	REACH No. Designation classification: // Remark	Wt %
262-975-0 61788-44-1	01-2119980970-27-xxxx Phenol, styrenated Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411	10 - 25
220-666-8 2855-13-2 612-067-00-9	01-2119514687-32-xxxx 3-aminomethyl-3,5,5-trimethylcyclohexylamine Acute Tox. 4 H302 / Acute Tox. 4 H312 / Skin Corr. 1B H314 / Skin Sens. 1A H317 / Aquatic Chronic 3 H412	2,5 - 10
603-894-6 135108-88-2	01-2119983522-33-xxxx Polymer Acute Tox. 4 H302 / Skin Corr. 1C H314 / Skin Sens. 1 H317 / STOT RE 2 H373 / Aquatic Chronic 3 H412	2,5 - 10
202-859-9 100-51-6 603-057-00-5	01-2119492630-38-xxxx benzyl alcohol Acute Tox. 4 H302 / Acute Tox. 4 H332 / Eye Irrit. 2 H319	2,5 - 10
500-191-5 68082-29-1	01-2119972320-44-xxxx Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411	2,5 - 10
292-588-2 90640-67-8 612-065-00-8	01-2119487919-13-xxxx Amines, polyethylenepoly, triethylenetetramine fraction Acute Tox. 4 H312 / Skin Corr. 1B H314 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412	1 - 2,5
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 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Repr. 2 H361 / STOT RE 1 H372 / Aquatic Chronic 3 H412	1 - 2,5
216-032-5 1477-55-0	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	1 - 2,5
202-013-9 90-72-2 603-069-00-0	01-2119560597-27-xxxx 2,4,6-tris(dimethylaminomethyl)phenol Acute Tox. 4 H302 / Eye Irrit. 2 H319 / Skin Irrit. 2 H315	1 - 2,5
247-063-2 25513-64-8	01-2119560598-25-xxxx 2,2,4-trimethylhexane-1,6-diamine Acute Tox. 4 H302 / Skin Corr. 1A H314 / Skin Sens. 1A H317	1 - 2,5

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270-966-8 68512-30-1	01-2119555274-38-xxxx Phenol, methylstyrenated Acute Tox. 4 H312 / Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412	0,5 - 1
203-680-9 109-55-7 612-061-00-6	01-2119486842-27-xxxx 3-aminopropyl dimethylamine Acute Tox. 4 H302 / Acute Tox. 4 H312 / Skin Corr. 1B H314 / Skin Sens. 1 H317 / STOT SE 3 H335 / Flam. Liq. 3 H226	0,5 - 1
254-052-6 38640-62-9	01-2119565150-48-xxxx Bis(isopropyl)naphthalene Asp. Tox. 1 H304 / Aquatic Chronic 1 H410 (M = 1)	0,5 - 1
262-977-1 61788-46-3 612-285-00-4	01-2119473798-17-xxxx amines, coco alkyl Acute Tox. 4 H302 / Skin Corr. 1B H314 / STOT SE 3 H335 / STOT RE 2 H373 / Asp. Tox. 1 H304 / Aquatic Acute 1 H400 (M = 10) / Aquatic Chronic 1 H410 (M = 10)	0,5 - 1
217-168-8 1761-71-3	01-2119541673-38-xxxx 4,4'-Methylenbis(cyclohexylamine) Acute Tox. 4 H302 / Skin Corr. 1B H314 / Skin Sens. 1 H317 / STOT RE 2 H373	0,5 - 1

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:

2,4,6-tris(dimethylaminomethyl)phenol

INDEX No. 603-069-00-0 / EC No. 202-013-9 / CAS No. 90-72-2

DNEL long-term dermal (systemic), Workers: 0,2 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 0,31 mg/m³

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/m³

DNEL long-term inhalative (systemic), Workers: 90 mg/m³

3-aminopropyldimethylamine

INDEX No. 612-061-00-6 / EC No. 203-680-9 / CAS No. 109-55-7

DNEL acute inhalative (local), Workers: 9,8 mg/m³

DNEL acute inhalative (systemic), Workers: 9,8 mg/m³

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DNEL long-term inhalative (local), Workers: 4,9 mg/m³
DNEL long-term inhalative (systemic), Workers: 4,9 mg/m³

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/dm²
DNEL acute dermal, short-term (systemic), Workers: 20 mg/kg
DNEL long-term dermal (local), Workers: 0,6 mg/dm²
DNEL long-term dermal (systemic), Workers: 3,33 mg/kg bw/day
DNEL acute inhalative (systemic), Workers: 21,4 mg/m³
DNEL long-term inhalative (systemic), Workers: 3,6 mg/m³

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/m³
DNEL long-term inhalative (systemic), Workers: 1,2 mg/m³

4,4'-Methylenbis(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/m³

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/m³

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/m³

Phenol, methylstyrenated

EC No. 270-966-8 / CAS No. 68512-30-1

DNEL short-term oral (acute), Workers:
DNEL long-term inhalative (systemic), Workers: 57 mg/m³

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine

EC No. 500-191-5 / CAS No. 68082-29-1

DNEL long-term dermal (systemic), Workers: 1,1 mg/kg
DNEL long-term inhalative (systemic), Workers: 3,9 mg/m³

PNEC:

2,4,6-tris(dimethylaminomethyl)phenol

INDEX No. 603-069-00-0 / EC No. 202-013-9 / CAS No. 90-72-2

PNEC aquatic, freshwater: 0,084 mg/l
PNEC aquatic, marine water: 0,0084 mg/l
PNEC aquatic, intermittent release: 0,84 mg/l
PNEC sewage treatment plant (STP): 0,2 mg/l

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

3-aminopropyldimethylamine

INDEX No. 612-061-00-6 / EC No. 203-680-9 / CAS No. 109-55-7

PNEC aquatic, freshwater: 0,0535 mg/l
PNEC aquatic, marine water: 0,0535 x10⁻¹ mg/l
PNEC aquatic, intermittent release: 0,535 mg/l
PNEC sediment, freshwater: 0,585 mg/kg
PNEC sediment, marine water: 0,0585 mg/kg
PNEC, soil: 0,0854 mg/kg
PNEC sewage treatment plant (STP): 69,5 mg/l

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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
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'-Methylenbis(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

3-aminomethyl-3,5,5-trimethylcyclohexylamine

INDEX No. 612-067-00-9 / EC No. 220-666-8 / CAS No. 2855-13-2

PNEC aquatic, freshwater: 0,06 mg/l
PNEC aquatic, marine water: 0,006 mg/l
PNEC aquatic, intermittent release: 0,23 mg/l
PNEC sediment, freshwater: 5,784 mg/kg
PNEC sediment, marine water: 0,578 mg/kg
PNEC, soil: 1,121 mg/kg
PNEC sewage treatment plant (STP): 3,18 mg/l

2,2,4-trimethylhexane-1,6-diamine

EC No. 247-063-2 / CAS No. 25513-64-8

PNEC aquatic, freshwater: 0,0295 mg/l
PNEC aquatic, marine water: 0,0029 mg/l
PNEC aquatic, intermittent release: 0,295 mg/l
PNEC sediment, freshwater: 0,18 mg/kg
PNEC sediment, marine water: 0,018 mg/kg
PNEC, soil: 0,019 mg/kg
PNEC sewage treatment plant (STP): 72 mg/l

Bis(isopropyl)naphthalene

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

PNEC aquatic, freshwater: $0,26 \times 10^{-3}$ 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: $11,5 \times 10^{-3}$ mg/l
PNEC aquatic, marine water: $1,15 \times 10^{-3}$ mg/l
PNEC aquatic, intermittent release: $13,5 \times 10^{-3}$ mg/l
PNEC sediment, freshwater: 1,564 mg/kg
PNEC sediment, marine water: 0,1564 mg/kg
PNEC, soil: 0,3052 mg/kg

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

Phenol, methylstyrenated

EC No. 270-966-8 / CAS No. 68512-30-1

PNEC aquatic, freshwater: 14×10^{-3} mg/l

PNEC aquatic, marine water: $1,4 \times 10^{-3}$ mg/l

PNEC aquatic, intermittent release: 140×10^{-3} mg/l

PNEC sediment, freshwater: 52,9 mg/kg

PNEC sediment, marine water: 5,3 mg/kg

PNEC, soil: 10,5 mg/kg

PNEC sewage treatment plant (STP): 2,4 mg/l

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine

EC No. 500-191-5 / CAS No. 68082-29-1

PNEC aquatic, freshwater: 0,0043 mg/l

PNEC aquatic, marine water: 0,0004 mg/l

PNEC aquatic, intermittent release: 0,0434 mg/l

PNEC sediment, freshwater: 434,02 mg/kg

PNEC sediment, marine water: 43,4 mg/kg

PNEC sewage treatment plant (STP): 3,84 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 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 (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:

Liquid

Colour:

refer to label

Odour:

like amine

Odour threshold:

not determined

pH at 20 °C:

not applicable

Melting point/freezing point:

not applicable

Initial boiling point and boiling range:

not applicable

Flash point:

> 101 °C

Method: DIN 53213

flammability

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Burning time (s):	not applicable
Upper/lower flammability or explosive limits:	
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Vapour pressure at 20 °C:	0,0581 mbar Method: calculated
Relative density:	
Density at 20 °C:	1,41 g/cm³ Method: calculated
Solubility(ies):	
Water solubility (g/L) at 20 °C:	insoluble
Partition coefficient: n-octanol/water:	see section 12
Auto-ignition temperature:	not applicable
Decomposition temperature:	not determined
Viscosity at °C:	pasty
Explosive properties:	not applicable
Oxidising properties:	not applicable
9.2. Other information	
Solvent	
Organic solvents:	0 Wt %

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**
- 2,4,6-tris(dimethylaminomethyl)phenol
oral, LD50, Rat: 1670 mg/kg
dermal, LD50, Rabbit: 1242 mg/kg
- 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)
- 3-aminopropyl-dimethylamine
oral, LD50, Rat: 1600 mg/kg
dermal, LD50, Rabbit: 2139 mg/kg
- 2-piperazin-1-ylethylamine

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oral, LD50, Rat: 2000 mg/kg
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'-Methylenbis(cyclohexylamine)
oral, LD50, Rat: 625 mg/kg
dermal, LD50, Rabbit: 2110 mg/kg

3-aminomethyl-3,5,5-trimethylcyclohexylamine
oral, LD50, Rat: 1030 mg/kg
dermal, LD50, Rabbit: 1840 mg/kg

2,2,4-trimethylhexane-1,6-diamine
oral, LD50, Rat: 910 mg/kg

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

amines, coco alkyl
oral, LD50, Rat: 1300 mg/kg

Phenol, methylstyrenated
oral, LD50, Rat: > 2000 mg/kg
dermal, LD50, Rat: > 2000 mg/kg
dermal, LD50, Rabbit: 2000 mg/kg
oral, LD50, Rabbit: 3600 mg/kg

Amines, polyethylenepoly, triethylenetetramine fraction
oral, LD50, Rat: 1716 mg/kg
dermal, LD50, Rat
dermal, LD50, Rabbit: 1465 mg/kg
oral, LD50, Mouse: 1600 mg/kg
oral, LD50, Rabbit: 5500 mg/kg

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine
oral, LD50, Rat: > 2000 mg/kg
dermal, LD50, Rat: > 2000 mg/kg

Polymer
oral, LD50, Rat: 367 mg/kg
dermal, LD50, Rabbit: > 2000 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)

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

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 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 .

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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)

3-aminopropylidimethylamine

Fish toxicity, LC50, Leuciscus idus (golden orfe): 122 mg/l (96 h)

Daphnia toxicity, EC50: 59,5 mg/l (48 h)

Algae toxicity, EC50, Algae: 56,2 mg/l (72 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 44,5 mg/l (24 h)

Bacteria toxicity, EC50, Pseudomonas putida: 95 mg/l (17 h)

Bacteria toxicity, EC50: > 1000 mg/l

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)

Fish toxicity, LC50, Brachydanio rerio (zebra-fish): > 100 mg/l (96 h)

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Fish toxicity, LC50, Brachydanio rerio (zebra-fish): 110 mg/l (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 23 mg/l (48 h)

Method: OECD 202

Algae toxicity, ErC50, Scenedesmus subspicatus: > 50 mg/l (72 h)

Method: 88/302/EWG, annex V; C.8

Bacteria toxicity, EC10, Pseudomonas putida: 1120 mg/l (18 h)

Method: literature value

2,2,4-trimethylhexane-1,6-diamine

Algae toxicity, ErC50, Scenedesmus subspicatus: 29,5 mg/l

Fish toxicity, LC50, Leuciscus idus (golden orfe): 174 (48 h)

Bacteria toxicity, EC50, Pseudomonas putida: 89 (17 h)

amines, coco alkyl

Fish toxicity, LC50, Leuciscus idus (golden orfe) 0,16 - 0,3 mg/l (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 0,045 mg/l (48 h)

Algae toxicity, ErC50, Selenastrum capricornutum: 0,17 mg/l (72 h)

Long-term Ecotoxicity

Toxic 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

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

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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 2735

14.2. UN proper shipping name

Land transport (ADR/RID):

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

Sea transport (IMDG):

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

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

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

14.3. Transport hazard class(es)

8

14.4. Packing group

II

14.5. Environmental hazards

Land transport (ADR/RID)

UMWELTGEFÄHRDEND

Marine pollutant

p / Phenol styrolisiert

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

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

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VOC-value (in g/L): 49,382

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).

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.
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.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
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. 1A / 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.
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. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
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 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).
Skin Corr. 1A / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
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.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.

Classification procedure

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

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.
STOT RE 2	STOT-repeated exposure	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

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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 chapter 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.