

## 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

Restricted to professional users.

#### Relevant identified uses

hardener/amine component for epoxy resin

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

#### supplier

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

#### Department responsible for information

E-mail (competent person) msds@webac.de

### 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

## 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 Dam. 1; Serious eye damage/eye irritation; H318 Causes serious eye damage.  
STOT RE 2; STOT-repeated exposure; H373 May cause damage to organs through prolonged or repeated exposure.  
Skin Corr. 1B; Skin corrosion/irritation; H314 Causes severe skin burns and eye damage.  
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



GHS05

GHS07

GHS08

GHS09

#### Signal word

Danger

#### Hazard statements

H373 May cause damage to organs through prolonged or repeated exposure.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P260 Do not breathe vapours.  
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.  
P391 Collect spillage.

**Hazard components for labelling**

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine  
2-piperazin-1-ylethylamine  
3-aminomethyl-3,5,5-trimethylcyclohexylamine  
4,4'-methylenebis(cyclohexylamine)  
Amines, polyethylenepoly-, triethylenetetramine fraction  
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine  
Methyleneoxide, polymer with benzenamine, hydrogenated  
3-aminopropyldimethylamine  
Phenol, methylstyrenated  
Phenol, styrenated  
m-phenylenebis(methylamine)

**Supplemental hazard information**

not applicable

**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**

hardener/amine component for epoxy resin

**Hazardous ingredients**

CAS No. EC No. Index No.	Substance name REACH No. Classification according to Regulation (EC) No 1272/2008 [CLP]	weight-%
61788-44-1 262-975-0 -	<b>Phenol, styrenated</b> 01-2119980970-27-xxxx Skin Irrit. 2 H315 / Skin Sens. 1A H317 / Aquatic Chronic 2 H411 ATE (oral): > 2.000 mg/kg ATE (dermal): > 2.000 mg/kg	10,0 < 25,0
2855-13-2 220-666-8 612-067-00-9	<b>3-aminomethyl-3,5,5-trimethylcyclohexylamine</b> 01-2119514687-32-xxxx Acute Tox. 4 H302 / Acute Tox. 4 H312 / Skin Corr. 1B H314 / Skin Sens. 1A H317 / Aquatic Chronic 3 H412 Specific concentration limit (SCL) Skin Sens. 1A H317: >= 0,001 ATE (dermal): = 1.840 mg/kg ATE (oral): = 1.030 mg/kg	2,50 < 10,0
135108-88-2 603-894-6 -	<b>Methyleneoxide, polymer with benzenamine, hydrogenated</b> 01-2119983522-33-xxxx Acute Tox. 4 H302 / Skin Corr. 1C H314 / Skin Sens. 1 H317 / STOT RE 2 H373 / Aquatic Chronic 3 H412 ATE (dermal): > 2.000 mg/kg ATE (oral): = 367 mg/kg	2,50 < 10,0
68082-29-1 500-191-5 -	<b>Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine</b> 01-2119972320-44-xxxx Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Eye Dam. 1 H318 / Aquatic Chronic 2 H411 ATE (dermal): > 2.000 mg/kg ATE (oral): > 2.000 mg/kg	2,50 < 10,0
100-51-6 202-859-9 603-057-00-5	<b>benzyl alcohol</b> 01-2119492630-38-xxxx Acute Tox. 4 H302 / Eye Irrit. 2 H319 / Acute Tox. 4 H332 ATE (dermal): = 2.000 mg/kg ATE (oral): = 1.230 mg/kg ATE (inhalative): > 4,178 mg/L (4 h)	2,50 < 10,0
90640-67-8 292-588-2 -	<b>Amines, polyethylenepoly-, triethylenetetramine fraction</b> 01-2119487919-13-xxxx Acute Tox. 4 H312 / Skin Corr. 1B H314 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412 ATE (oral): = 5.500 mg/kg ATE (dermal): = 1.465 mg/kg ATE (oral): = 1.600 mg/kg ATE (oral): = 1.716 mg/kg	1,00 < 2,50
1477-55-0	<b>m-phenylenebis(methylamine)</b>	1,00 < 2,50

216-032-5 -	01-2119480150-50-xxxx Acute Tox. 4 H302 / Skin Corr. 1B H314 / Skin Sens. 1 H317 / Acute Tox. 4 H332 / Aquatic Chronic 3 H412 ATE (dermal): > 3.100 mg/kg ATE (oral): = 930 mg/kg	
90-72-2 202-013-9 603-069-00-0	<b>2,4,6-tris(dimethylaminomethyl)phenol</b> 01-2119560597-27-xxxx Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 ATE (dermal): = 1.242 mg/kg ATE (oral): = 1.670 mg/kg	1,00 < 2,50
25513-64-8 247-063-2 -	<b>2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine</b> 01-2119560598-25-xxxx Acute Tox. 4 H302 / Skin Corr. 1A H314 / Skin Sens. 1A H317 ATE (oral): 910 mg/kg	0,50 < 1,00
140-31-8 205-411-0 612-105-00-4	<b>2-piperazin-1-ylethylamine</b> 01-2119471486-30-xxxx 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 ATE (dermal): = 866 mg/kg ATE (oral): = 2.000 mg/kg	0,50 < 1,00
109-55-7 203-680-9 612-061-00-6	<b>3-aminopropyldimethylamine</b> 01-2119486842-27-xxxx Flam. Liq. 3 H226 / Acute Tox. 4 H302 / Skin Corr. 1B H314 / Skin Sens. 1 H317 ATE (dermal): = 2.139 mg/kg ATE (oral): = 1.600 mg/kg	0,50 < 1,00
61788-46-3 262-977-1 612-285-00-4	<b>amines, coco alkyl</b> 01-2119473798-17-xxxx Acute Tox. 4 H302 / Asp. Tox. 1 H304 / Skin Corr. 1B H314 / STOT SE 3 H335 / STOT RE 2 H373 / Aquatic Acute 1 H400 (M = 10,00 ) / Aquatic Chronic 1 H410 (M = 10,00 ) ATE (oral): = 1.300 mg/kg	0,50 < 1,00
69-72-7 200-712-3 607-732-00-5	<b>salicylic acid</b> 01-2119486984-17-xxxx Acute Tox. 4 H302 / Eye Dam. 1 H318 / Repr. 2 H361d ATE (oral): = 891 mg/kg ATE (dermal): > 2.000 mg/kg	0,100 < 0,50
1761-71-3 217-168-8 -	<b>4,4'-methylenebis(cyclohexylamine)</b> 01-2119541673-38-xxxx Acute Tox. 4 H302 / Skin Corr. 1B H314 / Skin Sens. 1B H317 / STOT RE 2 H373 ATE (dermal): = 2.110 mg/kg ATE (oral): = 625 mg/kg	0,100 < 0,50
68512-30-1 270-966-8 -	<b>Phenol, methylstyrenated</b> 01-2119555274-38-xxxx Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412 ATE (oral): = 3.600 mg/kg ATE (dermal): > 2.000 mg/kg ATE (oral): > 2.000 mg/kg ATE (dermal): > 2.000 mg/kg	0,100 < 0,50
38640-62-9 254-052-6 -	<b>Bis(isopropyl)naphthalene</b> 01-2119565150-48-xxxx Asp. Tox. 1 H304 / Aquatic Chronic 1 H410 (M = 1,00 )	0,100 < 0,50

**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.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), 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

**Storage class** LGK8A - Combustible corrosive substances

**7.3 Specific end use(s)**

Observe technical data sheet.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Occupational exposure limit values**

CAS No.	Substance name	Source	Long-term /short-term (Spitzenbegrenzung)
9004-34-6	Cellulose	-	10 / - (-) mg/m <sup>3</sup>
14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	-	10 / - (-) mg/m <sup>3</sup> (inhalable fraction)
14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	-	0,8 / - (-) mg/m <sup>3</sup> (respirable fraction)
1477-55-0	m-phenylenebis(methylamine)	-	0,1 / - (-) mg/m <sup>3</sup>

**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
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	DNEL long-term dermal (systemic)	0,2 mg/kg bw/day
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	DNEL long-term inhalative (systemic)	0,31 mg/m <sup>3</sup>
140-31-8	2-piperazin-1-ylethylamine	DNEL long-term dermal (local)	0,6 mg/dm <sup>2</sup>
140-31-8	2-piperazin-1-ylethylamine	DNEL acute dermal, short-term (local)	4 mg/dm <sup>2</sup>
140-31-8	2-piperazin-1-ylethylamine	DNEL long-term dermal (systemic)	3,33 mg/kg bw/day
140-31-8	2-piperazin-1-ylethylamine	DNEL acute inhalative (systemic)	21,4 mg/m <sup>3</sup>
140-31-8	2-piperazin-1-ylethylamine	DNEL long-term inhalative (systemic)	3,6 mg/m <sup>3</sup>
140-31-8	2-piperazin-1-ylethylamine	DNEL acute dermal, short-term (systemic)	20 mg/kg
109-55-7	3-aminopropyl dimethylamine	DNEL acute inhalative (systemic)	9,8 mg/m <sup>3</sup>
109-55-7	3-aminopropyl dimethylamine	DNEL long-term inhalative (local)	4,9 mg/m <sup>3</sup>
109-55-7	3-aminopropyl dimethylamine	DNEL long-term inhalative (systemic)	4,9 mg/m <sup>3</sup>
109-55-7	3-aminopropyl dimethylamine	DNEL acute inhalative (local)	9,8 mg/m <sup>3</sup>
1761-71-3	4,4'-methylenebis(cyclohexylamine)	DNEL long-term dermal (systemic)	0,1 mg/kg bw/day
1761-71-3	4,4'-methylenebis(cyclohexylamine)	DNEL long-term inhalative (systemic)	1 mg/m <sup>3</sup>
38640-62-9	Bis(isopropyl)naphthalene	DNEL long-term dermal (systemic)	4,3 mg/kg bw/day
38640-62-9	Bis(isopropyl)naphthalene	DNEL long-term inhalative	30 mg/m <sup>3</sup>

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

**WEBAC®**

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		(systemic)	
68082-29-1	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	DNEL long-term inhalative (systemic)	3,9 mg/m <sup>3</sup>
68082-29-1	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	DNEL long-term dermal (systemic)	1,1 mg/kg
68512-30-1	Phenol, methylstyrenated	DNEL long-term dermal (systemic)	16,4 mg/kg bw/day
68512-30-1	Phenol, methylstyrenated	DNEL long-term inhalative (systemic)	57 mg/m <sup>3</sup>
61788-44-1	Phenol, styrenated	DNEL long-term dermal (systemic)	2,92 mg/kg bw/day
61788-44-1	Phenol, styrenated	DNEL long-term inhalative (systemic)	4,11 mg/m <sup>3</sup>
100-51-6	benzyl alcohol	DNEL acute dermal, short-term (systemic)	47 mg/kg bw/day
100-51-6	benzyl alcohol	DNEL long-term dermal (systemic)	9,5 mg/kg bw/day
100-51-6	benzyl alcohol	DNEL acute inhalative (systemic)	450 mg/m <sup>3</sup>
100-51-6	benzyl alcohol	DNEL long-term inhalative (systemic)	90 mg/m <sup>3</sup>
1477-55-0	m-phenylenebis(methylamine)	DNEL long-term inhalative (local)	0,2 mg/m <sup>3</sup>
1477-55-0	m-phenylenebis(methylamine)	DNEL long-term inhalative (systemic)	1,2 mg/m <sup>3</sup>
1477-55-0	m-phenylenebis(methylamine)	DNEL long-term dermal (systemic)	0,33 mg/kg
69-72-7	salicylic acid	DNEL long-term dermal (systemic)	2 mg/kg bw/day
69-72-7	salicylic acid	DNEL long-term inhalative (systemic)	16 mg/m <sup>3</sup>

**DNEL Consumer**

CAS No.	Substance name	DNEL type	DNEL value
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	DNEL long-term oral (repeated)	0,526 mg/kg

**PNEC**

CAS No.	Substance name	PNEC type	PNEC Value
25513-64-8	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	PNEC aquatic, intermittent release	0,295 mg/L
25513-64-8	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	PNEC aquatic, marine water	0,003 mg/L
25513-64-8	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	PNEC aquatic, freshwater	0,029 mg/L
25513-64-8	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	PNEC sewage treatment plant (STP)	72 mg/L
25513-64-8	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	PNEC sediment, marine water	0,018 mg/kg
25513-64-8	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	PNEC sediment, freshwater	0,18 mg/kg
25513-64-8	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	PNEC soil, freshwater	0,019 mg/kg
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	PNEC aquatic, intermittent release	0,84 mg/L
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	PNEC aquatic, freshwater	0,084 mg/L
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	PNEC aquatic, marine water	0,008 mg/L
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	PNEC sewage treatment plant (STP)	0,2 mg/L
140-31-8	2-piperazin-1-ylethylamine	PNEC aquatic, intermittent release	0,58 mg/L
140-31-8	2-piperazin-1-ylethylamine	PNEC sewage treatment plant	250 mg/L



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		(STP)	
140-31-8	2-piperazin-1-ylethylamine	PNEC aquatic, marine water	0,006 mg/L
140-31-8	2-piperazin-1-ylethylamine	PNEC aquatic, freshwater	0,058 mg/L
140-31-8	2-piperazin-1-ylethylamine	PNEC sediment, marine water	21,5 mg/kg
140-31-8	2-piperazin-1-ylethylamine	PNEC sediment, freshwater	215 mg/kg
140-31-8	2-piperazin-1-ylethylamine	PNEC soil, freshwater	42,9 mg/kg
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	PNEC aquatic, intermittent release	0,23 mg/L
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	PNEC sewage treatment plant (STP)	3,18 mg/L
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	PNEC aquatic, marine water	0,006 mg/L
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	PNEC aquatic, freshwater	0,06 mg/L
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	PNEC sediment, marine water	0,578 mg/kg
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	PNEC sediment, freshwater	5,784 mg/kg
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	PNEC soil, freshwater	1,121 mg/kg
109-55-7	3-aminopropyldimethylamine	PNEC aquatic, intermittent release	0,535 mg/L
109-55-7	3-aminopropyldimethylamine	PNEC sewage treatment plant (STP)	69,5 mg/L
109-55-7	3-aminopropyldimethylamine	PNEC aquatic, marine water	0,053 mg/L
109-55-7	3-aminopropyldimethylamine	PNEC aquatic, freshwater	0,053 mg/L
109-55-7	3-aminopropyldimethylamine	PNEC sediment, marine water	0,059 mg/kg
109-55-7	3-aminopropyldimethylamine	PNEC sediment, freshwater	0,585 mg/kg
109-55-7	3-aminopropyldimethylamine	PNEC soil, freshwater	0,085 mg/kg
1761-71-3	4,4'-methylenebis(cyclohexylamine)	PNEC aquatic, intermittent release	0,08 mg/L
1761-71-3	4,4'-methylenebis(cyclohexylamine)	PNEC aquatic, marine water	0,001 mg/L
1761-71-3	4,4'-methylenebis(cyclohexylamine)	PNEC aquatic, freshwater	0,008 mg/L
1761-71-3	4,4'-methylenebis(cyclohexylamine)	PNEC sewage treatment plant (STP)	80 mg/L
1761-71-3	4,4'-methylenebis(cyclohexylamine)	PNEC sediment, marine water	0,039 mg/kg
1761-71-3	4,4'-methylenebis(cyclohexylamine)	PNEC sediment, freshwater	0,39 mg/kg
1761-71-3	4,4'-methylenebis(cyclohexylamine)	PNEC soil, freshwater	0,072 mg/kg
38640-62-9	Bis(isopropyl)naphthalene	PNEC Secondary Poisoning	25 mg/kg
38640-62-9	Bis(isopropyl)naphthalene	PNEC aquatic, marine water	0,026 mg/L
38640-62-9	Bis(isopropyl)naphthalene	PNEC aquatic, freshwater	0,26 mg/L
38640-62-9	Bis(isopropyl)naphthalene	PNEC sewage treatment plant (STP)	0,15 mg/L
38640-62-9	Bis(isopropyl)naphthalene	PNEC sediment, marine water	0,094 mg/kg
38640-62-9	Bis(isopropyl)naphthalene	PNEC sediment, freshwater	0,94 mg/kg
38640-62-9	Bis(isopropyl)naphthalene	PNEC soil, freshwater	0,187 mg/kg
68082-29-1	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	PNEC aquatic, marine water	0 mg/L
68082-29-1	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	PNEC aquatic, freshwater	0,004 mg/L
68082-29-1	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	PNEC aquatic, intermittent release	0,043 mg/L
68082-29-1	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	PNEC sewage treatment plant (STP)	3,84 mg/L
68082-29-1	Fatty acids, C18-unsatd., dimers, oligomeric	PNEC sediment, marine water	43,4 mg/kg

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	reaction products with tall-oil fatty acids and triethylenetetramine		
68082-29-1	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	PNEC sediment, freshwater	434,02 mg/kg
68512-30-1	Phenol, methylstyrenated	PNEC aquatic, intermittent release	140 mg/L
68512-30-1	Phenol, methylstyrenated	PNEC aquatic, marine water	1,4 mg/L
68512-30-1	Phenol, methylstyrenated	PNEC aquatic, freshwater	14 mg/L
68512-30-1	Phenol, methylstyrenated	PNEC sewage treatment plant (STP)	2,4 mg/L
68512-30-1	Phenol, methylstyrenated	PNEC sediment, marine water	5,3 mg/kg
68512-30-1	Phenol, methylstyrenated	PNEC sediment, freshwater	52,9 mg/kg
68512-30-1	Phenol, methylstyrenated	PNEC soil, freshwater	10,5 mg/kg
61788-44-1	Phenol, styrenated	PNEC aquatic, freshwater	11,5 mg/L
61788-44-1	Phenol, styrenated	PNEC aquatic, marine water	1,15 mg/L
61788-44-1	Phenol, styrenated	PNEC aquatic, intermittent release	13,5 mg/L
61788-44-1	Phenol, styrenated	PNEC sewage treatment plant (STP)	10 mg/L
61788-44-1	Phenol, styrenated	PNEC sediment, marine water	0,156 mg/kg
61788-44-1	Phenol, styrenated	PNEC sediment, freshwater	1,564 mg/kg
61788-44-1	Phenol, styrenated	PNEC soil, freshwater	0,305 mg/kg
100-51-6	benzyl alcohol	PNEC aquatic, intermittent release	2,3 mg/L
100-51-6	benzyl alcohol	PNEC aquatic, marine water	0,1 mg/L
100-51-6	benzyl alcohol	PNEC aquatic, freshwater	1 mg/L
100-51-6	benzyl alcohol	PNEC sewage treatment plant (STP)	39 mg/L
100-51-6	benzyl alcohol	PNEC sediment, marine water	0,527 mg/kg
100-51-6	benzyl alcohol	PNEC sediment, freshwater	5,27 mg/kg
100-51-6	benzyl alcohol	PNEC soil, freshwater	0,456 mg/kg
1477-55-0	m-phenylenebis(methylamine)	PNEC aquatic, intermittent release	0,152 mg/L
1477-55-0	m-phenylenebis(methylamine)	PNEC aquatic, marine water	0,009 mg/L
1477-55-0	m-phenylenebis(methylamine)	PNEC aquatic, freshwater	0,094 mg/L
1477-55-0	m-phenylenebis(methylamine)	PNEC sewage treatment plant (STP)	10 mg/L
1477-55-0	m-phenylenebis(methylamine)	PNEC sediment, marine water	0,043 mg/kg
1477-55-0	m-phenylenebis(methylamine)	PNEC sediment, freshwater	0,43 mg/kg
1477-55-0	m-phenylenebis(methylamine)	PNEC soil, freshwater	0,045 mg/kg
69-72-7	salicylic acid	PNEC aquatic, marine water	0,02 mg/L
69-72-7	salicylic acid	PNEC aquatic, freshwater	0,2 mg/L
69-72-7	salicylic acid	PNEC aquatic, intermittent release	1 mg/L
69-72-7	salicylic acid	PNEC sewage treatment plant (STP)	162 mg/L
69-72-7	salicylic acid	PNEC sediment, marine water	0,142 mg/kg
69-72-7	salicylic acid	PNEC sediment, freshwater	1,42 mg/kg
69-72-7	salicylic acid	PNEC soil, freshwater	0,166 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  $\geq 0,4$  mm  
Breakthrough time  $\geq 480$  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
pH	not applicable
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	$> 101$ °C
flammability	not applicable
Lower explosion limit at 20°C	not determined
Upper explosion limit at 20°C	not determined
Vapour pressure at 20°C	0,672 mbar
Relative vapour density	not applicable
Density at 20 °C	1,411 kg/l
Water solubility at 20°C	not determined
Partition coefficient: n-octanol/water	see section 12
Ignition temperature in °C	not determined
Decomposition temperature	not determined
Viscosity at 20 °C:	$> 20,5$ mm <sup>2</sup> /s
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 (CO<sub>2</sub>), 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.

#### **2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine**

LD50: oral (Rat): 910 mg/kg

#### **2,4,6-tris(dimethylaminomethyl)phenol**

LD50: dermal (Rabbit): = 1.242 mg/kg

LD50: oral (Rat): = 1.670 mg/kg

#### **2-piperazin-1-ylethylamine**

LD50: dermal (Rabbit): = 866 mg/kg; (literature value)

LD50: oral (Rat): = 2.000 mg/kg

#### **3-aminomethyl-3,5,5-trimethylcyclohexylamine**

LD50: dermal (Rabbit): = 1.840 mg/kg

LD50: oral (Rat): = 1.030 mg/kg

#### **3-aminopropyldimethylamine**

LD50: dermal (Rabbit): = 2.139 mg/kg

LD50: oral (Rat): = 1.600 mg/kg

#### **4,4'-methylenebis(cyclohexylamine)**

LD50: dermal (Rabbit): = 2.110 mg/kg

LD50: oral (Rat): = 625 mg/kg

#### **Amines, polyethylenepoly-, triethylenetetramine fraction**

LD50: oral (Rabbit): = 5.500 mg/kg

LD50: dermal (Rabbit): = 1.465 mg/kg

LD50: oral (Mouse): = 1.600 mg/kg

LD50: oral (Rat): = 1.716 mg/kg

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

LD50: dermal (Rat): > 2.000 mg/kg

LD50: oral (Rat): > 2.000 mg/kg

#### **Methyleneoxide, polymer with benzenamine, hydrogenated**

LD50: dermal (Rabbit): > 2.000 mg/kg

LD50: oral (Rat): = 367 mg/kg

#### **Phenol, methylstyrenated**

LD50: oral (Rabbit): = 3.600 mg/kg

LD50: dermal (Rabbit): > 2.000 mg/kg

LD50: oral (Rat): > 2.000 mg/kg

LD50: dermal (Rat): > 2.000 mg/kg

#### **Phenol, styrenated**

LD50: oral (Rat): > 2.000 mg/kg

LD50: dermal (Rat): > 2.000 mg/kg

**amines, coco alkyl**

LD50: oral (Rat): = 1.300 mg/kg

**benzyl alcohol**

LD50: dermal (Rabbit): = 2.000 mg/kg

LD50: oral (Rat): = 1.230 mg/kg

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

**m-phenylenebis(methylamine)**

LD50: dermal (Rabbit): > 3.100 mg/kg

LD50: oral (Rat): = 930 mg/kg

**salicylic acid**

LD50: oral (Rat): = 891 mg/kg

LD50: dermal (Rat): > 2.000 mg/kg

**Skin corrosion/irritation**

Causes severe skin burns and eye damage.

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**Overall assessment on CMR properties**

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**

May cause damage to organs through prolonged or repeated exposure.

Indications for this are:

Headache, Dizziness, fatigue, amyosthenia, Dizziness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

**Aspiration hazard**

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

**11.2 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.

**SECTION 12: Ecological information**

**12.1 Toxicity**

Toxic to aquatic life with long lasting effects.

**Algae toxicity**

**2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine**

ErC50: (Scenedesmus subspicatus): = 43,5 mg/L (72 h)

**2-piperazin-1-ylethylamine**

ErC50: (Pseudokirchneriella subcapitata): > 1.000 mg/L (72 h)

**3-aminomethyl-3,5,5-trimethylcyclohexylamine**

ErC50: (Scenedesmus subspicatus): > 50 mg/L (72 h)

**3-aminopropyldimethylamine**

EC50 = 56,2 mg/L (72 h)

**Amines, polyethylenepoly-, triethylenetetramine fraction**

EC50 (Scenedesmus subspicatus): = 2,5 (16 h)

ErC50: (Selenastrum capricornutum): = 20 mg/L (72 h)

**Phenol, methylstyrenated**

ErC50: (*Scenedesmus subspicatus*): = 15 mg/L (72 h)

**Phenol, styrenated**

ErC50: (*Scenedesmus subspicatus*): = 3,14 mg/L (72 h)

**amines, coco alkyl**

ErC50: (*Selenastrum capricornutum*): = 0,17 mg/L (72 h)

**benzyl alcohol**

ErC50: (*Pseudokirchneriella subcapitata*): = 770 mg/L (72 h)

NOEC (*Pseudokirchneriella subcapitata*): = 310 mg/L (72 h)

**m-phenylenebis(methylamine)**

ErC50: (*Scenedesmus subspicatus*): = 12 mg/L (72 h)

ErC50: (*Scenedesmus subspicatus*): = 12 mg/L (72 h)

**Daphnia toxicity**

**2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine**

EC50 = 31,5 (24 h)

**2-piperazin-1-ylethylamine**

EC50 (*Daphnia magna* (Big water flea)): = 58 mg/L (48 h)

**3-aminomethyl-3,5,5-trimethylcyclohexylamine**

EC50 (*Daphnia magna* (Big water flea)): = 23 mg/L (48 h)

Method: OECD 202

EC50 = 3 mg/L (504 h)

Method: OECD 202

**3-aminopropyldimethylamine**

EC50 = 59,5 mg/L (48 h)

EC50 (*Daphnia magna* (Big water flea)): = 44,5 mg/L (24 h)

**Amines, polyethylenepoly-, triethylenetetramine fraction**

EC50 (*Daphnia magna* (Big water flea)): = 31 mg/L (48 h)

**amines, coco alkyl**

EC50 (*Daphnia magna* (Big water flea)): = 0,045 mg/L (48 h)

**benzyl alcohol**

EC50 (*Daphnia magna* (Big water flea)): = 230 mg/L (48 h)

**m-phenylenebis(methylamine)**

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

**salicylic acid**

EC50 = 870 mg/L (48 h)

**Fish toxicity**

**2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine**

EC50 (*Pseudomonas putida*): = 89 (17 h)

LC50: (*Leuciscus idus* (golden orfe)): = 174 (48 h)

**2,4,6-tris(dimethylaminomethyl)phenol**

LC50: (*Oncorhynchus mykiss* (Rainbow trout)): = 222 mg/L (24 h)

LC50: (*Cyprinus carpio* (Common Carp)): = 718 mg/L (96 h)

**2-piperazin-1-ylethylamine**

LC50: (*Poecilia reticulata* (Guppy)): = 368 mg/L (96 h)

**3-aminomethyl-3,5,5-trimethylcyclohexylamine**

EC10: (*Pseudomonas putida*): = 1.120 mg/L (18 h)

Method: literature value

LC50: (*Danio rerio* (zebrafish)): = 110 mg/L (96 h)

**3-aminopropyldimethylamine**

EC50 > 1.000 mg/L

EC50 (*Pseudomonas putida*): = 95 mg/L (17 h)

LC50: (*Leuciscus idus* (golden orfe)): = 122 mg/L (96 h)

**Amines, polyethylenepoly-, triethylenetetramine fraction**

= 0,003 mg/L

= 0,135 mg/L

= 800 mg/L

EC50 (Pseudomonas putida): = 137 mg/L

LC50: = 330 mg/L (96 h)

LC50: (Poecilia reticulata (Guppy)): = 570 (96 h)

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

LC50: = 7,07 mg/L (96 h)

**Phenol, methylstyrenated**

LC50: = 25,8 mg/L (96 h)

**Phenol, styrenated**

LC50: = 14,8 mg/L (96 h)

**benzyl alcohol**

LC50: = 460 mg/L (96 h)

**m-phenylenebis(methylamine)**

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

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

**12.2 Persistence and degradability**

No information available.

**12.3 Bioaccumulative potential**

**Bis(isopropyl)naphthalene**

Partition coefficient: n-octanol/water = 4

**12.4 Mobility in soil**

No information 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**

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**

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 2735

**14.2 UN proper shipping name**

**Land transport (ADR/RID)**

AMINE, FLÜSSIG, ÄTZEND, N.A.G (enthält METHYLENOXID, POLYMER MIT BENZENAMIN, HYDRIERT, TRIETHYLENTETRAMIN)

**Sea transport (IMDG)**

Amines, liquid, corrosive, n.o.s. (contain METHYLENEOXIDE, POLYMER WITH BENZENAMINE, HYDROGENATED, TRIETHYLENETETRAMINE, AMINES OR POLYAMINES, LIQUID, CORROSIVE)

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

Amines, liquid, corrosive, n.o.s. (contain METHYLENEOXIDE, POLYMER WITH BENZENAMINE, HYDROGENATED, TRIETHYLENETETRAMINE)

**14.3 Transport hazard class(es)**

Land transport (ADR/RID)	8
Sea transport (IMDG)	8
Air transport (ICAO-TI / IATA-DGR)	8

**14.4 Packing group**

Land transport (ADR/RID)	II
Sea transport (IMDG)	II
Air transport (ICAO-TI / IATA-DGR)	II

**14.5 Environmental hazards**

Land transport (ADR/RID)	ENVIRONMENTALLY HAZARDOUS
Sea transport (IMDG)	Marine pollutant / AMINE ODER POLYAMINE, FLÜSSIG, ÄTZEND

**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: E  
Limited quantity (LQ): 1 ltr  
Hazard identification number (Kemler No.): 80

**Sea transport (IMDG)**

Segregation group: IMDG-Code segregation group 18 - Alkalis  
EmS-No.: F-A, S-B  
Limited quantity (LQ): 1 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**

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: 49 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

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361	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).
H361d	Suspected of damaging the unborn child.
H372	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).
H373	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).
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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

Eye Dam. 1	Calculation method.
STOT RE 2	Calculation method.
Skin Corr. 1B	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

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

**WEBAC®**

WEBAC 4530 Comp. B  
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\* Data changed compared with the previous version.