

WEBAC 4520 Comp. B Version 2.0

Revision date 31-Jul-2023

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

1.1 Product identifier

Trade name/designation

WEBAC 4520 Comp. 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 Telephone: +49 40 670570 Telefax: +49 40 6703227 22885 Barsbüttel Deutschland

Department responsible for information

E-mail (competent person)

1.4 Emergency telephone number

Giftinformationszentrum-Nord

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

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].

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Acute Tox. 4 oral; Acute toxicity; H302 Harmful if swallowed.

Eye Dam. 1; Serious eye damage/eye irritation; H318 Causes serious eye damage.

Repr. 2; Reproductive toxicity; H361 Suspected of damaging fertility or the unborn child.

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

Signal word Danger

Hazard statements

Hazaru statements	
H302	Harmful if swallowed.
H361	Suspected of damaging fertility or the unborn child.
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 state	ments
P260	Do not breathe vapours.

t preathe vapours P273 Avoid release to the environment.



WEBAC 4520 Comp. B Version 2.0	Revision date 31-Jul-2023	Print date 31-Jul-2023
P280	Wear protective gloves and eye/face protection.	
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated cloth shower].	hing. Rinse skin with water [or
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Rel easy to do. Continue rinsing.	move contact lenses, if present and
P310	Immediately call a POISON CENTER.	
P391	Collect spillage.	
Hazard components f	or labelling	

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 Fatty acids, tall-oil, reaction products with bisphenol A, epichlorhydrin, glycidyl tolyl ether and triethylenetetramine Methyleneoxide, polymer with benzenamine, hydrogenated 3-aminopropyldimethylamine

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-%
*	100-51-6 202-859-9 603-057-00-5	benzyl alcohol 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)	10,0 <= 25,0
*	2855-13-2 220-666-8 612-067-00-9	3-aminomethyl-3,5,5-trimethylcyclohexylamine 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	10,0 <= 25,0
*	61788-44-1 262-975-0 -	Phenol, styrenated 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
*	140-31-8 205-411-0 612-105-00-4	2-piperazin-1-ylethylamine 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	2,50 <= 10,0
*	135108-88-2 603-894-6 -	Methyleneoxide, polymer with benzenamine, hydrogenated 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
*	1477-55-0 216-032-5 -	m-phenylenebis(methylamine) 01-2119480150-50-xxxx Acute Tox. 4 H302 / Skin Corr. 1B H314 / Skin Sens. 1 H317 / Acute Tox. 4 H332 / Aquatic Chronic 3 H412	2,50 <= 10,0



WEBAC 4520 Comp. B Version 2.0 Revision date 31-Jul-2023 Print date 31-Jul-2023 ATE (dermal): > 3.100 mg/kg ATE (oral): = 930 mg/kg 9046-10-0 Poly(oxypropylene)diamine 2,50 <= 10,0 618-561-0 01-2119557899-12-xxxx Skin Corr. 1C H314 / Aquatic Chronic 3 H412 ATE (dermal): = 2.980 mg/kg ATE (oral): = 2.885 mg/kg 68609-08-5 2.50 <= 10.0 Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A 614-657-1 diglycidyl ether homopolymer Skin Corr. 1B H314 / Eye Dam. 1 H318 2,50 <= 10,0 68082-29-1 Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and 500-191-5 triethylenetetramine 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 186321-96-0 Fatty acids, tall-oil, reaction products with bisphenol A, epichlorhydrin, glycidyl tolyl ether 2,50 <= 10,0 606-078-8 and triethylenetetramine Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Eye Dam. 1 H318 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410 Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8 $1,00 \le 2,50$ 292-588-2 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 1761-71-3 4,4'-methylenebis(cyclohexylamine) $1.00 \le 2.50$ 217-168-8 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 69-72-7 salicylic acid 1,00 <= 2,50 01-2119486984-17-xxxx 200-712-3 607-732-00-5 Acute Tox. 4 H302 / Eye Dam. 1 H318 / Repr. 2 H361d ATE (oral): = 891 mg/kg ATE (dermal): > 2.000 mg/kg 109-55-7 3-aminopropyldimethylamine 0,50 <= 1,00 203-680-9 01-2119486842-27-xxxx 612-061-00-6 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 0,100 <= 0,50 61788-46-3 amines, coco alkyl 01-2119473798-17-xxxx 262-977-1 612-285-00-4 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

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.



WEBAC 4520 Comp. B Version 2.0

Revision date 31-Jul-2023

Print date 31-Jul-2023

Self-protection of the first aider

First aider: Pay attention to self-protection!

Most important symptoms and effects, both acute and delayed

Symptoms

4.2

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 (CO2), Powder, spray mist, (water) Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ventilate affected area. Do not breathe vapours.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

For containment

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

For cleaning up

Clean using cleansing agents. Do not use solvents.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling

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

Advices on general occupational hygiene

When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

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

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

Hints on joint storage



WEBAC 4520 Comp. B		
Version 2.0	Revision date 31-Jul-2023	Print date 31-Jul-2023
Keep away from st	rongly acidic and alkaline materials as well as oxidizers	

Do not store together with: Food and feedingstuffs

Storage class LGK8A - Combustible corrosive substances

Further information on storage conditions

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

7.3 Specific end use(s)

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)
14807-96-6	Talc (Mg3H2(SiO3)4)	-	10 / - (-) mg/m³ (inhalable fraction)
14807-96-6	Talc (Mg3H2(SiO3)4)	-	0,8 / - (-) mg/m³ (respirable fraction)
1477-55-0	m-phenylenebis(methylamine)	-	0,1 / - (-) mg/m³

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
140-31-8	2-piperazin-1-ylethylamine	DNEL long-term dermal (local)	0,6 mg/dm ²
140-31-8	2-piperazin-1-ylethylamine	DNEL acute dermal, short-term (local)	4 mg/dm²
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/m³
140-31-8	2-piperazin-1-ylethylamine	DNEL long-term inhalative (systemic)	3,6 mg/m³
140-31-8	2-piperazin-1-ylethylamine	DNEL acute dermal, short-term (systemic)	20 mg/kg
109-55-7	3-aminopropyldimethylamine	DNEL acute inhalative (systemic)	9,8 mg/m³
109-55-7	3-aminopropyldimethylamine	DNEL long-term inhalative (local)	4,9 mg/m³
109-55-7	3-aminopropyldimethylamine	DNEL long-term inhalative (systemic)	4,9 mg/m³
109-55-7	3-aminopropyldimethylamine	DNEL acute inhalative (local)	9,8 mg/m³
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 ³
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/m³
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
61788-44-1	Phenol, styrenated	DNEL long-term dermal	2,92 mg/kg bw/day



WEBAC 4520 Comp. B

Version 2.0

sion 2.0	Revision date 31-Jul-2023		Print date 31-Jul-202
		(systemic)	
61788-44-1	Phenol, styrenated	DNEL long-term inhalative (systemic)	4,11 mg/m³
9046-10-0	Poly(oxypropylene)diamine	DNEL long-term dermal (local)	62,3 mg/dm ²
9046-10-0	Poly(oxypropylene)diamine	DNEL long-term dermal (systemic)	2,5 mg/kg bw/day
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/m³
100-51-6	benzyl alcohol	DNEL long-term inhalative (systemic)	90 mg/m³
1477-55-0	m-phenylenebis(methylamine)	DNEL long-term inhalative (local)	0,2 mg/m³
1477-55-0	m-phenylenebis(methylamine)	DNEL long-term inhalative (systemic)	1,2 mg/m³
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/m³

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
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 (STP)	250 mg/L
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



WEBAC 4520 Comp. B Version 2.0

2.0 Revision date 31-Jul-2023

Print date 31-Jul-2023

on 2.0	Revision date 31-Jul-2023		Print date 31-Jul-2
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
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 reaction products with tall-oil fatty acids and triethylenetetramine	PNEC sediment, marine water	43,4 mg/kg
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
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
9046-10-0	Poly(oxypropylene)diamine	PNEC aquatic, marine water	0,014 mg/L
9046-10-0	Poly(oxypropylene)diamine	PNEC aquatic, freshwater	0,015 mg/L
9046-10-0	Poly(oxypropylene)diamine	PNEC aquatic, intermittent release	0,15 mg/L
9046-10-0	Poly(oxypropylene)diamine	PNEC Secondary Poisoning	6,93 mg/kg
9046-10-0	Poly(oxypropylene)diamine	PNEC sewage treatment plant (STP)	7,5 mg/L
9046-10-0	Poly(oxypropylene)diamine	PNEC sediment, marine water	0,125 mg/kg
9046-10-0	Poly(oxypropylene)diamine	PNEC sediment, freshwater	0,132 mg/kg
9046-10-0	Poly(oxypropylene)diamine	PNEC soil, freshwater	0,018 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

Revision date 31- Jul-2023



WEBAC 4520 Comp. B

Version 2.0

Print date 31-Jul-2023

1011 2.0	Revision date 31-Jul-2023		Print date 31-Jul-202
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 >= 0,4 mm Breakthrough time >= 480 min

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

Skin protection

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

Eye/face protection

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

Body protection

Wear suitable protective clothing. Change contaminated, saturated clothing.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

I	Physical state	Liquid
(Colour	yellow
(Odour	characteristic
I	PH	not applicable
I	Melting point/freezing point	not determined
I	Initial boiling point and boiling range	not determined



WEBAC 4520 Comp. B

Version 2.0	Revision date 31-Jul-2023	Print date 31-Jul-2023
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	0,415 mbar	
Relative vapour density	not applicable	
Density at 20 °C	1,137 kg/l	
Water solubility at 20°C	practically insoluble	
Partition coefficient: n-octa	nol/water see section 12	
Ignition temperature in °C	not determined	
Decomposition temperatur	e not determined	
Viscosity at 40 °C:	not determined	
particle characteristics	not applicable	

9.2 Other information

not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

Protect from moisture. Avoid high temperatures or direct sunlight.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

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

SECTION 11: Toxicological information

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

Acute toxicity

Harmful if swallowed. ATEmix: (oral) 1.726,413 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



WEBAC 4520 Comp. B Version 2.0 Revision date 31-Jul-2023 Print date 31-Jul-2023 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, styrenated LD50: oral (Rat): > 2.000 mg/kg LD50: dermal (Rat): > 2.000 mg/kg Poly(oxypropylene)diamine LD50: dermal (Rabbit): = 2.980 mg/kg LD50: oral (Rat): = 2.885 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** Suspected of damaging fertility or the unborn child. 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. 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



on 2.0 Revision date 31-Jul-2023	Print date 31-Ju
Toxic to aquatic life with long lasting effects.	
<i>Algae toxicity</i> 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)	
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorhydrin, glycidyl ErC50: (Pseudokirchneriella subcapitata): = 0,186 mg/L (72 h)	tolyl ether and triethylenetetramine
Phenol, styrenated ErC50: (Scenedesmus subspicatus): = 3,14 mg/L (72 h)	
Poly(oxypropylene)diamine ErC50: (Pseudokirchneriella subcapitata): = 15 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-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)	
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorhydrin, glycidyl EC50 (Daphnia magna (Big water flea)): = 0,705 mg/L (48 h)	tolyl ether and triethylenetetramine
Poly(oxypropylene)diamine EC50 (Daphnia magna (Big water flea)): = 80 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-piperazin-1-ylethylamine	



	AC 4520 Comp. B ion 2.0 Revision date 31-Jul-2023	Print date 31-Jul-20
	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 produ- LC50: = 7,07 mg/L (96 h)	cts with tall-oil fatty acids and triethylenetetramine
	Fatty acids, tall-oil, reaction products with bisphenol A, epic LC50: (Oncorhynchus mykiss (Rainbow trout)): = 1,8 mg/L (96 h	
	LC50: = 2.000 mg/L (96 h)	,
	Phenol, styrenated LC50: = 14,8 mg/L (96 h)	
	Poly(oxypropylene)diamine NOEC (Oncorhynchus mykiss (Rainbow trout)): = 15 mg/L (96 h))
	LC50: (Leuciscus idus (golden orfe)): > 15 mg/L (96 h)	
	benzyl alcohol LC50: = 460 mg/L (96 h)	
	m-phenylenebis(methylamine) LC50: (Oncorhynchus mykiss (Rainbow trout)): > 100 mg/L (96 l	h)
	LC50: (Danio rerio (zebrafish)): > 100 mg/L (96 h)	
2	Persistence and degradability	
	No information available.	
.3	Bioaccumulative potential	
	No information available.	
4	Mobility in soil	
_	No information available.	
.5	Results of PBT and vPvB assessment	
c	The substances in the mixture do not meet the PBT/vPvB criteria	a according to REACH, annex XIII.
.0	Endocrine disrupting properties This product does not contain a substance that has endocrine d components meets the criteria.	isrupting properties with respect to non-target organisms as no
.7	Other adverse effects No information available.	
EC	CTION 13: Disposal considerations	
8.1	Waste treatment methods	
	Product/Packaging disposal	
		her in a safe way. Waste disposal according to directive 2008/98/

Waste codes/waste designations according to EWC/AVV



WEBAC 4520 Comp. B Version 2.0

Revision date 31-Jul-2023

Print date 31-Jul-2023

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, 1,3-BENZENDIMETHANAMIN)

Sea transport (IMDG)

Amines, liquid, corrosive, n.o.s. (contain METHYLENEOXIDE, POLYMER WITH BENZENAMINE, HYDROGENATED, 1,3-BENZENEDIMETHANAMINE, AMINES OR POLYAMINES, LIQUID, CORROSIVE)

Air transport (ICAO-TI / IATA-DGR)

Amines, liquid, corrosive, n.o.s. (contain METHYLENEOXIDE, POLYMER WITH BENZENAMINE, HYDROGENATED, 1,3-BENZENEDIMETHANAMINE)

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

55.1	
Land transport (ADR/RID)	II
Sea transport (IMDG)	II
Air transport (ICAO-TI / IATA-DGR)	11

14.5 Environmental hazards

ENVIRONMENTALLY HAZARDOUS

Marine pollutant / AMINE ODER POLYAMINE, FLÜSSIG, ÄTZEND

Sea transport (IMDG) 14.6 Special precautions for user

Land transport (ADR/RID)

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



WEBAC 4520 Comp. B	
Version 2.0	

Revision date 31-Jul-2023

Print date 31-Jul-2023

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: 193 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

Elot of folovant hazara	
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 mixt	ures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 oral	Calculation method.
Eye Dam. 1	Calculation method.
Repr. 2	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



WEBAC 4520 Comp. B Version 2.0

Revision date 31-Jul-2023

EC: Effective Concentration EC: European Community EN: European Standard IATA-DGR: International Air Transport Association - Dangerous Goods Regulations IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk ICAO-TI: International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air IMDG Code: International Maritime Code for Dangerous Goods ISO: International Organization for Standardization LC: Lethal Concentration LD: Lethal Dose MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships OECD: Organisation for Economic Cooperation and Development PBT: persistent, bioaccumulative, toxic PNEC: Predicted No Effect Concentration RID: Regulations concerning the International Carriage of Dangerous Goods by Rail **UN: United Nations** VOC: Volatile Organic Compounds

vPvB: very persistent and very bioaccumulative

Indication of changes

* Data changed compared with the previous version.