

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 08-Apr-2019

Print date: 09-Apr-2019

Version: 4.4

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EUROTEAM
construction chemicals



EURODUR EPH 0401 Komponente A

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

1.1. Product identifier

Trade name/designation:

EURODUR EPH 0401 Komponente A

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

Relevant identified uses:

Sector of uses [SU]

SU 19: Building and construction work

Uses advised against:

Sector of uses [SU]

SU 21: Consumer uses

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Euroteam Bauchemie GmbH

An der Mühle 1
15345 Altlandsberg
Germany

Telephone: +49 (0) 33438 14790

Telefax: +49 (0) 33438 147929

E-mail: info@euroteam-bauchemie.de

Website: www.euroteam-bauchemie.de

E-mail (competent person): info@euroteam-bauchemie.de

1.4. Emergency telephone number

Labor, 24h: +49 (0) 162 2599220, Montag - Donnerstag 7:00 - 16:00; Freitag 7:00 - 13:00 +49 (0) 33438 1479 19 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 2</i>)	H411: Toxic to aquatic life with long lasting effects.	

2.2. Label elements

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

Hazard pictograms:



GHS07

Exclamation mark



GHS09

Environment

Signal word: Warning

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Hazard components for labelling:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane; Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

hazard statements for health hazards

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Hazard statements for environmental hazards

H411	Toxic to aquatic life with long lasting effects.
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Supplemental Hazard information (EU)

EUH208	Contains Octadecanamide, N,N'-1,6-hexanedylbis-12-hydroxy-, 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.. May produce an allergic reaction.
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Precautionary statements Prevention

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of water/...
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Special rules for supplemental label elements for certain mixtures:

10,0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

64,0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

10,9 % percent of the mixture consists of components of unknown hazards to the aquatic environment.






2.3. Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 25068-38-6 EC No.: 500-033-5	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane Aquatic Chronic 2, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1   Warning H315-H317-H319-H411	27 - ≤ 45 Wt %
CAS No.: 68609-97-2 EC No.: 271-846-8	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. Skin Irrit. 2, Skin Sens. 1  Warning H315-H317	6 - ≤ 10 Wt %
CAS No.: 68611-50-7	LIQUID POLYSULFIDE POLYMER WITH THIOL END GROUPS (MW <1800) Aquatic Chronic 2  H411	5 - ≤ 9 Wt %
CAS No.: 55349-01-4 EC No.: 611-260-5	Octadecanamide, N,N'-1,6-hexanedylbis-12-hydroxy- Aquatic Chronic 4, Skin Sens. 1B  Warning H317-H413	0 - ≤ 0.15 Wt %

Full text of H- and EUH-phrases: see section 16.

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion:

Get medical advice/attention if you feel unwell. Rinse mouth. Let water be drunken in little sips (dilution effect).

Self-protection of the first aider:

Use personal protection equipment.

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

Skin corrosion/irritation Allergic reactions Serious eye damage/eye irritation

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Foam, Dry extinguishing powder, Carbon dioxide (CO₂), Water spray jet

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

Carbon monoxide

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

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6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

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

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Do not breathe gas/fumes/vapour/spray. Wear personal protection equipment (refer to section 8).

Fire prevent measures:

Usual measures for fire prevention.

Environmental precautions:

Do not allow to enter into soil/subsoil.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Packaging materials:

Suitable container/equipment material: Tin

Requirements for storage rooms and vessels:

Keep/Store only in original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect against direct sunlight.

Further information on storage conditions:

Recommended storage temperature: +10 °C - +30 °C.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

No data available

8.1.2. Biological limit values

No data available

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8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane CAS No.: 25068-38-6	12.3 g/m ³	① DNEL worker ② DNEL acute inhalative (systemic)
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane CAS No.: 25068-38-6	12.3 g/m ³	① DNEL worker ② DNEL long-term inhalative (systemic)
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane CAS No.: 25068-38-6	8.3 mg/kg	① DNEL worker ② DNEL acute dermal, short-term (systemic)
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane CAS No.: 25068-38-6	8.3 mg/kg	① DNEL worker ② DNEL long-term dermal (systemic)

Substance name	PNEC Value	① PNEC type
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane CAS No.: 25068-38-6	0.003 mg/l	① PNEC aquatic, freshwater

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection (DIN EN 166)

Skin protection:

Recommended material: Butyl caoutchouc (butyl rubber), FKM (fluoro rubber), PVC (polyvinyl chloride), CR (polychloroprene, chloroprene rubber), NBR (Nitrile rubber). Tested protective gloves must be worn EN ISO 374. In the case of wanting to use the gloves again, clean them before taking off and air them well. Suitable material: Breakthrough time (maximum wearing time) min Breakthrough times and swelling properties of the material must be taken into consideration.

Respiratory protection:

(Combination filtering device (EN 14387)) If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Other protection measures:

Avoid: Inhalation of vapours or spray/mists. Avoid contact with eyes and skin. Wash hands before breaks and after work. Apply skin care products after work.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: grey

Odour: not determined

Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not determined</i>			

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parameter		at °C	Method	Remark
Flash point	> 100 °C			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	1.4 - 1.5 g/cm ³	23 °C		
Bulk density	<i>not determined</i>			
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	1 - 10 Pa*s	23 °C		
Kinematic viscosity	<i>not determined</i>	40 °C		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Safe handling: see section 7

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

Hydrogen chloride (HCl), Nitrogen oxides (NO_x), Sulphur dioxide (SO₂), Hydrogen sulphide (H₂S), Formaldehyde, Mercaptan

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
25068-38-6	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	LD₅₀ oral: 11,400 mg/kg (Rat) LD₅₀ dermal: >22,800 mg/kg (Rabbit)
68609-97-2	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LD₅₀ oral: 17,100 mg/kg (Rat)
68611-50-7	LIQUID POLYSULFIDE POLYMER WITH THIOL END GROUPS (MW <1800)	LD₅₀ oral: >5,000 mg/kg (Rat) LD₅₀ dermal: >7,800 mg/kg (Rat)

Acute oral toxicity:

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

Acute dermal toxicity:

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

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Acute inhalation toxicity:

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

Skin corrosion/irritation:

Causes burns.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

May cause an allergic skin reaction. Contains Octadecanamide, N,N'-1,6-hexanedylbis-12-hydroxy-, 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.. May produce an allergic reaction.

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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:

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

Aspiration hazard:

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

Additional information:

The product has not been tested. The statement is derived from the properties of the single components. No data available

SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
25068-38-6	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	EC₅₀ : 220 mg/l 4 d (Scenedesmus subspicatus) EC₅₀ : 3.6 mg/l 4 d (Leuciscus idus (golden orfe)) EC₅₀ : 2.8 mg/l 2 d (Daphnia magna (Big water flea)) LC₅₀ : 1.3 mg/l 4 d
68611-50-7	LIQUID POLYSULFIDE POLYMER WITH THIOL END GROUPS (MW <1800)	LC₅₀ : 320 mg/l 4 d (Pimephales promelas (fathead minnow)) ErC₅₀ : 17 mg/l 3 d (Selenastrum capricornutum) EC₅₀ : 4.71 mg/l 2 d (Daphnia magna (Big water flea))

Aquatic toxicity:

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Biodegradation:

Poorly biodegradable.

12.3. Bioaccumulative potential

CAS No.	Substance name	Log K _{OC}	Bioconcentration factor (BCF)
25068-38-6	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	3.242	
68609-97-2	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	3.77	

12.4. Mobility in soil

No data available

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12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
25068-38-6	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	—
68609-97-2	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	—
68611-50-7	LIQUID POLYSULFIDE POLYMER WITH THIOL END GROUPS (MW <1800)	—
55349-01-4	Octadecanamide, N,N'-1,6-hexanedylbis-12-hydroxy-	—

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

08 04 09 * Waste adhesives and sealants containing organic solvents or other dangerous substances

*: Evidence for disposal must be provided.

Waste treatment options





Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN-No.			
UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, LIQUID POLYSULFIDE POLYMER WITH THIOL END GROUPS (MW <1800))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, LIQUID POLYSULFIDE POLYMER WITH THIOL END GROUPS (MW <1800))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, LIQUID POLYSULFIDE POLYMER WITH THIOL END GROUPS (MW <1800))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, LIQUID POLYSULFIDE POLYMER WITH THIOL END GROUPS (MW <1800))
14.3. Transport hazard class(es)			
 9	 9	 9	 9
14.4. Packing group			
III	III	III	III

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.5. Environmental hazards			
		 MARINE POLLUTANT	
14.6. Special precautions for user			
Special provisions: 274 335 375 601 Limited quantity (LQ): 5 L Excepted Quantities: E1 Hazard identification number (Kemler No.): 90 Classification code: M6 Remark:	Special provisions: 274 335 375 601 Limited quantity (LQ): 5 L Excepted Quantities: E1 Classification code: M6 Remark:	Special provisions: 274 335 969 Limited quantity (LQ): 5 L Excepted Quantities: E1 EmS-No.: F-A, S-F Remark:	Special provisions: A97 A158 A197 Excepted Quantities: E1 Remark:

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Only use containers specifically approved for the substance/product.

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

[DE] National regulations

Technische Anleitung Luft (TA-Luft)

Anteil 1:

0.5 %

Water hazard class (WGK)

WGK:

2 - deutlich wassergefährdend

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

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

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 2</i>)	H411: Toxic to aquatic life with long lasting effects.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

16.6. Training advice

No data available

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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

1.1. Product identifier

Trade name/designation:

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

Relevant identified uses:

Sector of uses [SU]

SU 19: Building and construction work

Uses advised against:

Sector of uses [SU]

SU 21: Consumer uses

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Euroteam Bauchemie GmbH

An der Mühle 1
15345 Altlandsberg
Germany

Telephone: +49 (0) 33438 14790

Telefax: +49 (0) 33438 147929

E-mail: info@euroteam-bauchemie.de

Website: www.euroteam-bauchemie.de

E-mail (competent person): info@euroteam-bauchemie.de

1.4. Emergency telephone number

Labor, 24h: +49 (0) 162 2599220, Montag - Donnerstag 7:00 - 16:00; Freitag 7:00 - 13:00 +49 (0) 33438 1479 19 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Acute toxicity (oral) (<i>Acute Tox. 4</i>)	H302: Harmful if swallowed.	
Acute toxicity (dermal) (<i>Acute Tox. 4</i>)	H312: Harmful in contact with skin.	
Skin corrosion/irritation (<i>Skin Corr. 1</i>)	H314: Causes severe skin burns and eye damage.	
Respiratory or skin sensitisation (<i>Skin Sens. 1A</i>)	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	
Reproductive toxicity (<i>Repr. 2</i>)	H361: Suspected of damaging fertility or the unborn child.	
STOT-repeated exposure (<i>STOT RE 1</i>)	H372: Causes damage to organs through prolonged or repeated exposure. (...)	
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	

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2.2. Label elements

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

Hazard pictograms:



GHS08
Health hazard



GHS05
Corrosion



GHS07
Exclamation mark

Signal word: Danger

Hazard components for labelling:

1,3-Cyclohexanedimethanamine; 2-piperazin-1-ylethylamine; salicylic acid; 1,3-Benzenedimethanamine

hazard statements for health hazards	
H302 + H312	Harmful if swallowed or in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure. (...)

Hazard statements for environmental hazards	
H412	Harmful to aquatic life with long lasting effects.

Supplemental Hazard information (EU)	
EUH208	Contains 2-piperazin-1-ylethylamine, resorcinol, Phenol, styrenated, 1,3-Benzenedimethanamine. May produce an allergic reaction.

Precautionary statements Prevention	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements Response	
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Special rules for supplemental label elements for certain mixtures:

14,7 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

25,7 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

14,7 % percent of the mixture consists of components of unknown hazards to the aquatic environment.

2.3. Other hazards

No data available

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SECTION 3: Composition / information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 2579-20-6 EC No.: 219-941-5 REACH No.: 01-2119543741-41-XXXX	1,3-Cyclohexanedimethanamine Acute Tox. 4, Aquatic Chronic 3, Eye Dam. 1, Skin Corr. 1A H302-H312-H314-H318-H412	≥ 25 - < 50 Wt %
CAS No.: 140-31-8 EC No.: 205-411-0 REACH No.: 01-2119471486-30-XXXX	2-piperazin-1-ylethylamine Acute Tox. 3, Acute Tox. 4, Aquatic Chronic 3, Skin Corr. 1B, Skin Sens. 1 H302-H311-H314-H317-H412	≥ 25 - < 50 Wt %
CAS No.: 61788-44-1 EC No.: 262-975-0 REACH No.: 01-2119980970-27-XXXX	Phenol, styrenated Aquatic Chronic 2, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1A H315-H317-H319-H411	≥ 10 - < 25 Wt %
CAS No.: 69-72-7 EC No.: 200-712-3 REACH No.: 01-2119486984-17-XXXX	salicylic acid Acute Tox. 4, Eye Dam. 1 H302-H318	≥ 5 - < 15 Wt %
CAS No.: 1477-55-0 EC No.: 216-032-5 REACH No.: 01-2119480150-50-XXXX	1,3-Benzenedimethanamine Acute Tox. 3, Acute Tox. 4, Aquatic Chronic 3, Skin Corr. 1B, Skin Sens. 1B H302-H312-H314-H317-H331-H412	≥ 2.5 - < 15 Wt %
CAS No.: 108-46-3 EC No.: 203-585-2 REACH No.: 01-2119480136-40-XXXX	resorcinol Acute Tox. 4, Aquatic Acute 1, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1 H302-H315-H317-H319-H400	≥ 1 - < 5 Wt %

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Get immediate medical advice/attention. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

After ingestion:

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Get immediate medical advice/attention. Never give anything by mouth to an unconscious person or a person with cramps.

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Self-protection of the first aider:

Use personal protection equipment. No direct artificial respiration to be given by first aider. Avoid contact with skin, eyes and clothes.

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

To follow: SECTION 4: First aid measures, SECTION 11: Toxicological information Skin corrosion/irritation Allergic reactions Serious eye damage/eye irritation

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

Treat symptomatically. After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Rinse immediately carefully and thoroughly with eye-bath or water. Adverse human health effects and symptoms: Gastrointestinal complaints. Causes burns.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

alcohol resistant foam, Carbon dioxide (CO₂), Water spray jet, Dry extinguishing powder

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

Carbon dioxide (CO₂), Nitrogen oxides (NO_x), carbon black, Carbon monoxide Danger of bursting container.

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. The danger areas must be delimited and identified using relevant warning and safety signs. Use water spray jet to protect personnel and to cool endangered containers. none Full water jet.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. SECTION 6: Accidental release measures, SECTION 12: Ecological information

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety. Use personal protection equipment. Evacuate area.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

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

6.5. Additional information

Use appropriate container to avoid environmental contamination.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8). Do not breathe gas/fumes/vapour/spray.

Avoid: Eye contact, Skin contact. Take off contaminated clothing and wash it before reuse. Always close containers tightly after the removal of product. Ensure adequate ventilation of the storage area.

Fire prevent measures:

Usual measures for fire prevention.

Environmental precautions:

Do not allow to enter into soil/subsoil.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Packaging materials:

Suitable container/equipment material: Tin

Requirements for storage rooms and vessels:

Keep/Store only in original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect against direct sunlight.

Further information on storage conditions:

To follow: Maximum storage period (time). storage temperature: 5 - 30 °C

7.3. Specific end use(s)

Recommendation:

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	resorcinol CAS No.: 108-46-3	① 4 ppm (20 mg/m ³) ② 4 ppm (20 mg/m ³) ⑤ (einatembare Fraktion, kann über die Haut aufgenommen werden)
IOELV (EU)	resorcinol CAS No.: 108-46-3	① 10 ppm (45 mg/m ³) ⑤ (may be absorbed through the skin)

8.1.2. Biological limit values

No data available

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8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
2-piperazin-1-ylethylamine CAS No.: 140-31-8	21.4 mg/m ³	① DNEL worker ② DNEL acute inhalative (systemic)
2-piperazin-1-ylethylamine CAS No.: 140-31-8	20 mg/kg	① DNEL worker ② DNEL acute dermal, short-term (systemic)
salicylic acid CAS No.: 69-72-7	2 mg/kg bw/ day	① DNEL worker ② DNEL acute dermal, short-term (local)
1,3-Benzenedimethanamine CAS No.: 1477-55-0	1.2 mg/m ³	① DNEL worker ② DNEL acute inhalative (local)
1,3-Benzenedimethanamine CAS No.: 1477-55-0	0.33 mg/kg	① DNEL worker ② DNEL acute dermal, short-term (local)

Substance name	PNEC Value	① PNEC type
2-piperazin-1-ylethylamine CAS No.: 140-31-8	0.058 mg/l	① PNEC aquatic, freshwater
2-piperazin-1-ylethylamine CAS No.: 140-31-8	0.0058 mg/l	① PNEC aquatic, marine water
salicylic acid CAS No.: 69-72-7	0.2 mg/l	① PNEC aquatic, freshwater
salicylic acid CAS No.: 69-72-7	0.02 mg/l	① PNEC aquatic, marine water
1,3-Benzenedimethanamine CAS No.: 1477-55-0	0.094 mg/l	① PNEC aquatic, freshwater
1,3-Benzenedimethanamine CAS No.: 1477-55-0	0.0094 mg/l	① PNEC aquatic, marine water

8.2. Exposure controls

8.2.1. Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Provide adequate ventilation.

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection (DIN EN 166)

Skin protection:

Recommended material: PE (polyethylene), PVC (polyvinyl chloride), Butyl caoutchouc (butyl rubber), NR (natural rubber, natural latex). Tested protective gloves must be worn EN ISO 374. 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. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. In the case of wanting to use the gloves again, clean them before taking off and air them well. Wear protective gloves/protective clothing/eye protection/face protection. Suitable material: Breakthrough time (maximum wearing time) min Breakthrough times and swelling properties of the material must be taken into consideration.

Respiratory protection:

Respiratory protection necessary at: exceeding exposure limit values (Combination filtering device (EN 14387)). Use only respiratory protection equipment with CE-symbol including four digit test number.

Other protection measures:

Avoid: Inhalation of vapours or spray/mists. Avoid contact with eyes and skin. Wash hands before breaks and after work. Apply skin care products after work. When using do not eat, drink, smoke, sniff.

8.2.3. Environmental exposure controls

SECTION 7: Handling and storage, SECTION 13: Disposal considerations

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8.3. Additional information

Observe the expiry date.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: brown

Odour: Amines

Safety relevant basis data

parameter		at °C	Method	Remark
pH	8 - 11			literature value
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	> 200 °C			literature value
Decomposition temperature	<i>No data available</i>			
Flash point	> 100 °C			literature value
Evaporation rate	<i>No data available</i>			
Auto-ignition temperature	<i>No data available</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	< 5 hPa	50 °C		literature value
Vapour density	<i>No data available</i>			
Density	1.055	25 °C		literature value
Bulk density	<i>not determined</i>			
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/water	<i>No data available</i>			
Dynamic viscosity	<i>No data available</i>			
Kinematic viscosity	600 cSt	25 °C	ASTM D 445	
VOC-value (in g/L):	0 g/l		This chemical is a VOC according to 2004/42/EC.	

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Keep away from heat.

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10.5. Incompatible materials

Materials to avoid: Oxidising agent, Acid, Acrylate, Alcohols, aldehydes, halogenated hydrocarbons, Ketone, Nitrites, Metal articles: Copper, bronze, brass, Copper alloys.

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours. Hazardous decomposition products: Ammonia (NH₃), ETHYLENEDIAMINE, Amines, Hydrocarbons, Phenols.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
69-72-7	salicylic acid	LD₅₀ oral: 891 mg/kg (Rat) LD₅₀ dermal: >2,000 mg/kg (Rat)
1477-55-0	1,3-Benzenedimethanamine	LD₅₀ oral: 930 mg/kg (Rat) LD₅₀ dermal: >3,100 mg/kg (Rabbit)
140-31-8	2-piperazin-1-ylethylamine	LD₅₀ oral: 2,110 mg/kg (Rat) LD₅₀ dermal: 867 mg/kg (Rabbit)
61788-44-1	Phenol, styrenated	LD₅₀ oral: >2,000 mg/kg (Rat) LD₅₀ dermal: >2,000 mg/kg (Rat)

Acute oral toxicity:

IF SWALLOWED: Gastrointestinal complaints LD₅₀: > 1000 mg/kg, Rat, estimated Harmful if swallowed.

Acute dermal toxicity:

Harmful in contact with skin. LD₅₀: > 1000 mg/kg, Rabbit, estimated

Acute inhalation toxicity:

The inhalation of dust/mist or aerosols causes irritation of the respiratory tract. LC₅₀: not determined
Based on available data, the classification criteria are not met.

Skin corrosion/irritation:

Causes severe skin burns and eye damage.

Serious eye damage/irritation:

Causes severe skin burns and eye damage. Causes serious eye damage.

Respiratory or skin sensitisation:

May cause an allergic skin reaction. Contains 2-piperazin-1-ylethylamine, resorcinol, Phenol, styrenated, 1,3-Benzenedimethanamine. May produce an allergic reaction.

Germ cell mutagenicity:

In vitro mutagenicity/genotoxicity positive.

Carcinogenicity:

Longterm experiments do not indicate carcinogenic effects.

Reproductive toxicity:

No indications of human reproductive toxicity exist.

STOT-single exposure:

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

STOT-repeated exposure:

Practical experience/human evidence: Specific effects: Organs affected: heart, Liver and kidney damage, Spleen. Animal data: Organs affected: central nervous system, Respiratory tract, Gastrointestinal complaints

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Aspiration hazard:

none Aspiration hazard

Additional information:

The product has not been tested. The statement is derived from the properties of the single components.

SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
69-72-7	salicylic acid	EC₅₀ : >100 mg/l 3 d (Desmodesmus subspicatus) EC₅₀ : 870 mg/l 2 d (Daphnia magna (Big water flea)) LC₅₀ : 1,380 mg/l 4 d (Pimephales promelas (fath ead minnow))
1477-55-0	1,3-Benzenedimethanamine	EC₅₀ : 15.2 mg/l 2 d (Daphnia pulex (water flea)) OECD 202 EC₅₀ : 20.3 mg/l 3 d (Selenastrum capricornutum) LC₅₀ : 87.6 mg/l 4 d (Oryzias latipes (Ricefish)) LC₅₀ : >100 mg/l 4 d (Oncorhynchus mykiss (Rainbow trout)) LC₅₀ : >100 mg/l 4 d (Brachydanio rerio (zebrafish))
108-46-3	resorcinol	LC₅₀ : >100 mg/l 4 d (Oncorhynchus mykiss (Rainbow trout)) OECD 203 LC₅₀ : 1.28 mg/l 2 d (Daphnia magna (Big water flea)) EC₅₀ : <0.8 mg/l 2 d (Daphnia magna (Big water flea)) ErC₅₀ : 60 mg/l 4 d (Scenedesmus subspicatus) EC₅₀ : 1.1 mg/l 3 d (Chlorella pyrenoidosa)
2579-20-6	1,3-Cyclohexanedimethanamine	LC₅₀ : >100 mg/l 4 d (Leuciscus idus (golden orfe)) EC₅₀ : 29 mg/l 2 d (Daphnia magna (Big water flea)) OECD 202 EC₅₀ : 276 mg/l 3 d (Pseudokirchneriella subcapitata) OECD 201 EC₅₀ : ≥1,000 mg/l (Earthworm)
140-31-8	2-piperazin-1-ylethylamine	LC₅₀ : 2,190 mg/l 4 d (Pimephales promelas (fath ead minnow)) OECD 203 EC₅₀ : 58 mg/l 2 d (Daphnia magna (Big water flea)) OECD 202 ErC₅₀ : >1,000 mg/l 3 d (Pseudokirchneriella subcapitata) OECD 201 EC₅₀ : 494 mg/l 2 d (Selenastrum capricornutum) LC₅₀ : 368 mg/l 4 d (Poecilia reticulata (Guppy))

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CAS No.	Substance name	Toxicological information
61788-44-1	Phenol, styrenated	LC₅₀ : 14.8 mg/l 4 d (Brachydanio rerio (zebrafish)) OECD 203 EC₅₀ : >1 - 10 mg/l 2 d (Daphnia magna (Big water flea)) OECD 202 EC₅₀ : 3.14 mg/l 3 d (Scenedesmus subspicatus) OECD 201 NOEC : 1.9 mg/l 12 d (Oryzias latipes (Ricefish)) NOEC : 0.2 mg/l 21 d (Daphnia magna (Big water flea))

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
69-72-7	salicylic acid	Yes, rapidly	Method: OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F. Biodegradation: 88,1 %, Test duration: 14 d
1477-55-0	1,3-Benzenedimethanamine	No	Biodegradation: 22 %, Test duration: 28 d, Method: OECD 302 C, Biodegradation: 49 %, Test duration: 28 d, Method: OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C
108-46-3	resorcinol	Yes, rapidly	Biodegradation: 66,7 %, Test duration: 14 d, Method: OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F, Biodegradation: 97 %, Test duration: 4 d, Method: OECD 302B/ ISO 9888/ EEC 92/69/V, C.9, Biodegradation: 90 - 95 %, Test duration: 7 - 15 d
2579-20-6	1,3-Cyclohexanedimethanamine	No	Biodegradation: 29 %, Test duration: 28 d, Method: OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C; Biodegradation: 92 - 96 %, Test duration: 28 d, Method: OECD 303/ EEC 92/69/V, C10
140-31-8	2-piperazin-1-ylethylamine	No	Biodegradation: 0 %, Test duration: 28 d, Method: OECD F
61788-44-1	Phenol, styrenated	No	Biodegradation: 4 %, Method: 310

12.3. Bioaccumulative potential

CAS No.	Substance name	Log K _{OC}	Bioconcentration factor (BCF)
69-72-7	salicylic acid	2.26	
1477-55-0	1,3-Benzenedimethanamine	0.18	3 Species: Cyprinus carpio (Common Carp)
108-46-3	resorcinol	0.8	
2579-20-6	1,3-Cyclohexanedimethanamine	0.44	
140-31-8	2-piperazin-1-ylethylamine	-1.48	
61788-44-1	Phenol, styrenated	4	

Partition coefficient: n-octanol/water:

No data available

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12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
1477-55-0	1,3-Benzenedimethanamine	—
108-46-3	resorcinol	—
2579-20-6	1,3-Cyclohexanedimethanamine	—
140-31-8	2-piperazin-1-ylethylamine	—
61788-44-1	Phenol, styrenated	—

not determined

12.6. Other adverse effects

The product has not been tested. The statement is derived from the properties of the single components.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

13.2. Additional information

Do not allow to enter into surface water or drains.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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14.1. UN-No.

UN 2735

UN 2735

UN 2735

UN 2735

14.2. UN proper shipping name





AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Cyclohexanedimethanamine, 2-piperazin-1-ylethylamine)

AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Cyclohexanedimethanamine, 2-piperazin-1-ylethylamine)

AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Cyclohexanedimethanamine, 2-piperazin-1-ylethylamine, 1,3-Benzenedimethanamine)

AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Cyclohexanedimethanamine, 2-piperazin-1-ylethylamine)

14.3. Transport hazard class(es)

 8	 8	 8	 8
--	--	--	--

14.4. Packing group

I	I	I	I
---	---	---	---

14.5. Environmental hazards

No	No	No	No
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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.6. Special precautions for user			
Special provisions: 274 Limited quantity (LQ): 0 Excepted Quantities: E0 Hazard identification number (Kemler No.): 88 Classification code: C7 tunnel restriction code: (E) Remark:	Special provisions: 274 Limited quantity (LQ): 0 Excepted Quantities: E0 Classification code: C7 Remark:	Special provisions: 274 Limited quantity (LQ): 0 Excepted Quantities: E0 EmS-No.: F-A, S-B Remark:	Special provisions: A3 Excepted Quantities: E0 Remark:

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Only use containers specifically approved for the substance/product.

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

[DE] National regulations

Water hazard class (WGK)

WGK:

2 - deutlich wassergefährdend

Description:

Classification according to VwVwS, Annex 4.

Other regulations, restrictions and prohibition regulations

Not subject to 96/82/EC

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

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

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Acute toxicity (oral) (<i>Acute Tox. 4</i>)	H302: Harmful if swallowed.	
Acute toxicity (dermal) (<i>Acute Tox. 4</i>)	H312: Harmful in contact with skin.	
Skin corrosion/irritation (<i>Skin Corr. 1</i>)	H314: Causes severe skin burns and eye damage.	
Respiratory or skin sensitisation (<i>Skin Sens. 1A</i>)	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	
Reproductive toxicity (<i>Repr. 2</i>)	H361: Suspected of damaging fertility or the unborn child.	
STOT-repeated exposure (<i>STOT RE 1</i>)	H372: Causes damage to organs through prolonged or repeated exposure. (...)	
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H302	Harmful if swallowed.
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.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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

1.1. Product identifier

Trade name/designation:

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

Relevant identified uses:

Sector of uses [SU]

SU 19: Building and construction work

Uses advised against:

Sector of uses [SU]

SU 21: Consumer uses

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Euroteam Bauchemie GmbH

An der Mühle 1
15345 Altlandsberg
Germany

Telephone: +49 (0) 33438 14790

Telefax: +49 (0) 33438 147929

E-mail: info@euroteam-bauchemie.de

Website: www.euroteam-bauchemie.de

E-mail (competent person): info@euroteam-bauchemie.de

1.4. Emergency telephone number

Labor, 24h: +49 (0) 162 2599220, Montag - Donnerstag 7:00 - 16:00; Freitag 7:00 - 13:00 +49 (0) 33438 1479 19 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Acute toxicity (oral) (<i>Acute Tox. 4</i>)	H302: Harmful if swallowed.	
Acute toxicity (dermal) (<i>Acute Tox. 4</i>)	H312: Harmful in contact with skin.	
Skin corrosion/irritation (<i>Skin Corr. 1</i>)	H314: Causes severe skin burns and eye damage.	
Respiratory or skin sensitisation (<i>Skin Sens. 1A</i>)	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	
Reproductive toxicity (<i>Repr. 2</i>)	H361: Suspected of damaging fertility or the unborn child.	
STOT-repeated exposure (<i>STOT RE 1</i>)	H372: Causes damage to organs through prolonged or repeated exposure. (...)	
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	

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2.2. Label elements

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

Hazard pictograms:



GHS08
Health hazard



GHS05
Corrosion



GHS07
Exclamation mark

Signal word: Danger

Hazard components for labelling:

1,3-Cyclohexanedimethanamine; 2-piperazin-1-ylethylamine; salicylic acid; 1,3-Benzenedimethanamine

hazard statements for health hazards	
H302 + H312	Harmful if swallowed or in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure. (...)

Hazard statements for environmental hazards	
H412	Harmful to aquatic life with long lasting effects.

Supplemental Hazard information (EU)	
EUH208	Contains 2-piperazin-1-ylethylamine, resorcinol, Phenol, styrenated, 1,3-Benzenedimethanamine. May produce an allergic reaction.

Precautionary statements Prevention	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements Response	
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Special rules for supplemental label elements for certain mixtures:

14,7 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

25,7 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

14,7 % percent of the mixture consists of components of unknown hazards to the aquatic environment.

2.3. Other hazards

No data available

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SECTION 3: Composition / information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 2579-20-6 EC No.: 219-941-5 REACH No.: 01-2119543741-41-XXXX	1,3-Cyclohexanedimethanamine Acute Tox. 4, Aquatic Chronic 3, Eye Dam. 1, Skin Corr. 1A H302-H312-H314-H318-H412	≥ 25 - < 50 Wt %
CAS No.: 140-31-8 EC No.: 205-411-0 REACH No.: 01-2119471486-30-XXXX	2-piperazin-1-ylethylamine Acute Tox. 3, Acute Tox. 4, Aquatic Chronic 3, Skin Corr. 1B, Skin Sens. 1 H302-H311-H314-H317-H412	≥ 25 - < 50 Wt %
CAS No.: 61788-44-1 EC No.: 262-975-0 REACH No.: 01-2119980970-27-XXXX	Phenol, styrenated Aquatic Chronic 2, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1A H315-H317-H319-H411	≥ 10 - < 25 Wt %
CAS No.: 69-72-7 EC No.: 200-712-3 REACH No.: 01-2119486984-17-XXXX	salicylic acid Acute Tox. 4, Eye Dam. 1 H302-H318	≥ 5 - < 15 Wt %
CAS No.: 1477-55-0 EC No.: 216-032-5 REACH No.: 01-2119480150-50-XXXX	1,3-Benzenedimethanamine Acute Tox. 3, Acute Tox. 4, Aquatic Chronic 3, Skin Corr. 1B, Skin Sens. 1B H302-H312-H314-H317-H331-H412	≥ 2.5 - < 15 Wt %
CAS No.: 108-46-3 EC No.: 203-585-2 REACH No.: 01-2119480136-40-XXXX	resorcinol Acute Tox. 4, Aquatic Acute 1, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1 H302-H315-H317-H319-H400	≥ 1 - < 5 Wt %

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Get immediate medical advice/attention. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

After ingestion:

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Get immediate medical advice/attention. Never give anything by mouth to an unconscious person or a person with cramps.

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Self-protection of the first aider:

Use personal protection equipment. No direct artificial respiration to be given by first aider. Avoid contact with skin, eyes and clothes.

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

To follow: SECTION 4: First aid measures, SECTION 11: Toxicological information Skin corrosion/irritation Allergic reactions Serious eye damage/eye irritation

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

Treat symptomatically. After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Rinse immediately carefully and thoroughly with eye-bath or water. Adverse human health effects and symptoms: Gastrointestinal complaints. Causes burns.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

alcohol resistant foam, Carbon dioxide (CO₂), Water spray jet, Dry extinguishing powder

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

Carbon dioxide (CO₂), Nitrogen oxides (NO_x), carbon black, Carbon monoxide Danger of bursting container.

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. The danger areas must be delimited and identified using relevant warning and safety signs. Use water spray jet to protect personnel and to cool endangered containers. none Full water jet.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. SECTION 6: Accidental release measures, SECTION 12: Ecological information

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety. Use personal protection equipment. Evacuate area.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

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

6.5. Additional information

Use appropriate container to avoid environmental contamination.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8). Do not breathe gas/fumes/vapour/spray.

Avoid: Eye contact, Skin contact. Take off contaminated clothing and wash it before reuse. Always close containers tightly after the removal of product. Ensure adequate ventilation of the storage area.

Fire prevent measures:

Usual measures for fire prevention.

Environmental precautions:

Do not allow to enter into soil/subsoil.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Packaging materials:

Suitable container/equipment material: Tin

Requirements for storage rooms and vessels:

Keep/Store only in original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect against direct sunlight.

Further information on storage conditions:

To follow: Maximum storage period (time). storage temperature: 5 - 30 °C

7.3. Specific end use(s)

Recommendation:

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	resorcinol CAS No.: 108-46-3	① 4 ppm (20 mg/m ³) ② 4 ppm (20 mg/m ³) ⑤ (einatembare Fraktion, kann über die Haut aufgenommen werden)
IOELV (EU)	resorcinol CAS No.: 108-46-3	① 10 ppm (45 mg/m ³) ⑤ (may be absorbed through the skin)

8.1.2. Biological limit values

No data available

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8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
2-piperazin-1-ylethylamine CAS No.: 140-31-8	21.4 mg/m ³	① DNEL worker ② DNEL acute inhalative (systemic)
2-piperazin-1-ylethylamine CAS No.: 140-31-8	20 mg/kg	① DNEL worker ② DNEL acute dermal, short-term (systemic)
salicylic acid CAS No.: 69-72-7	2 mg/kg bw/ day	① DNEL worker ② DNEL acute dermal, short-term (local)
1,3-Benzenedimethanamine CAS No.: 1477-55-0	1.2 mg/m ³	① DNEL worker ② DNEL acute inhalative (local)
1,3-Benzenedimethanamine CAS No.: 1477-55-0	0.33 mg/kg	① DNEL worker ② DNEL acute dermal, short-term (local)

Substance name	PNEC Value	① PNEC type
2-piperazin-1-ylethylamine CAS No.: 140-31-8	0.058 mg/l	① PNEC aquatic, freshwater
2-piperazin-1-ylethylamine CAS No.: 140-31-8	0.0058 mg/l	① PNEC aquatic, marine water
salicylic acid CAS No.: 69-72-7	0.2 mg/l	① PNEC aquatic, freshwater
salicylic acid CAS No.: 69-72-7	0.02 mg/l	① PNEC aquatic, marine water
1,3-Benzenedimethanamine CAS No.: 1477-55-0	0.094 mg/l	① PNEC aquatic, freshwater
1,3-Benzenedimethanamine CAS No.: 1477-55-0	0.0094 mg/l	① PNEC aquatic, marine water

8.2. Exposure controls

8.2.1. Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Provide adequate ventilation.

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection (DIN EN 166)

Skin protection:

Recommended material: PE (polyethylene), PVC (polyvinyl chloride), Butyl caoutchouc (butyl rubber), NR (natural rubber, natural latex). Tested protective gloves must be worn EN ISO 374. 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. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. In the case of wanting to use the gloves again, clean them before taking off and air them well. Wear protective gloves/protective clothing/eye protection/face protection. Suitable material: Breakthrough time (maximum wearing time) min Breakthrough times and swelling properties of the material must be taken into consideration.

Respiratory protection:

Respiratory protection necessary at: exceeding exposure limit values (Combination filtering device (EN 14387)). Use only respiratory protection equipment with CE-symbol including four digit test number.

Other protection measures:

Avoid: Inhalation of vapours or spray/mists. Avoid contact with eyes and skin. Wash hands before breaks and after work. Apply skin care products after work. When using do not eat, drink, smoke, sniff.

8.2.3. Environmental exposure controls

SECTION 7: Handling and storage, SECTION 13: Disposal considerations

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8.3. Additional information

Observe the expiry date.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: brown

Odour: Amines

Safety relevant basis data

parameter		at °C	Method	Remark
pH	8 - 11			literature value
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	> 200 °C			literature value
Decomposition temperature	<i>No data available</i>			
Flash point	> 100 °C			literature value
Evaporation rate	<i>No data available</i>			
Auto-ignition temperature	<i>No data available</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	< 5 hPa	50 °C		literature value
Vapour density	<i>No data available</i>			
Density	1.055	25 °C		literature value
Bulk density	<i>not determined</i>			
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/water	<i>No data available</i>			
Dynamic viscosity	<i>No data available</i>			
Kinematic viscosity	600 cSt	25 °C	ASTM D 445	
VOC-value (in g/L):	0 g/l		This chemical is a VOC according to 2004/42/EC.	

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Keep away from heat.

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10.5. Incompatible materials

Materials to avoid: Oxidising agent, Acid, Acrylate, Alcohols, aldehydes, halogenated hydrocarbons, Ketone, Nitrites, Metal articles: Copper, bronze, brass, Copper alloys.

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours. Hazardous decomposition products: Ammonia (NH₃), ETHYLENEDIAMINE, Amines, Hydrocarbons, Phenols.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
69-72-7	salicylic acid	LD₅₀ oral: 891 mg/kg (Rat) LD₅₀ dermal: >2,000 mg/kg (Rat)
1477-55-0	1,3-Benzenedimethanamine	LD₅₀ oral: 930 mg/kg (Rat) LD₅₀ dermal: >3,100 mg/kg (Rabbit)
140-31-8	2-piperazin-1-ylethylamine	LD₅₀ oral: 2,110 mg/kg (Rat) LD₅₀ dermal: 867 mg/kg (Rabbit)
61788-44-1	Phenol, styrenated	LD₅₀ oral: >2,000 mg/kg (Rat) LD₅₀ dermal: >2,000 mg/kg (Rat)

Acute oral toxicity:

IF SWALLOWED: Gastrointestinal complaints LD₅₀: > 1000 mg/kg, Rat, estimated Harmful if swallowed.

Acute dermal toxicity:

Harmful in contact with skin. LD₅₀: > 1000 mg/kg, Rabbit, estimated

Acute inhalation toxicity:

The inhalation of dust/mist or aerosols causes irritation of the respiratory tract. LC₅₀: not determined
Based on available data, the classification criteria are not met.

Skin corrosion/irritation:

Causes severe skin burns and eye damage.

Serious eye damage/irritation:

Causes severe skin burns and eye damage. Causes serious eye damage.

Respiratory or skin sensitisation:

May cause an allergic skin reaction. Contains 2-piperazin-1-ylethylamine, resorcinol, Phenol, styrenated, 1,3-Benzenedimethanamine. May produce an allergic reaction.

Germ cell mutagenicity:

In vitro mutagenicity/genotoxicity positive.

Carcinogenicity:

Longterm experiments do not indicate carcinogenic effects.

Reproductive toxicity:

No indications of human reproductive toxicity exist.

STOT-single exposure:

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

STOT-repeated exposure:

Practical experience/human evidence: Specific effects: Organs affected: heart, Liver and kidney damage, Spleen. Animal data: Organs affected: central nervous system, Respiratory tract, Gastrointestinal complaints

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Aspiration hazard:

none Aspiration hazard

Additional information:

The product has not been tested. The statement is derived from the properties of the single components.

SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
69-72-7	salicylic acid	EC₅₀ : >100 mg/l 3 d (Desmodesmus subspicatus) EC₅₀ : 870 mg/l 2 d (Daphnia magna (Big water flea)) LC₅₀ : 1,380 mg/l 4 d (Pimephales promelas (fath ead minnow))
1477-55-0	1,3-Benzenedimethanamine	EC₅₀ : 15.2 mg/l 2 d (Daphnia pulex (water flea)) OECD 202 EC₅₀ : 20.3 mg/l 3 d (Senastrum capricornutum) LC₅₀ : 87.6 mg/l 4 d (Oryzias latipes (Ricefish)) LC₅₀ : >100 mg/l 4 d (Oncorhynchus mykiss (Rainbow trout)) LC₅₀ : >100 mg/l 4 d (Brachydanio rerio (zebrafish))
108-46-3	resorcinol	LC₅₀ : >100 mg/l 4 d (Oncorhynchus mykiss (Rainbow trout)) OECD 203 LC₅₀ : 1.28 mg/l 2 d (Daphnia magna (Big water flea)) EC₅₀ : <0.8 mg/l 2 d (Daphnia magna (Big water flea)) ErC₅₀ : 60 mg/l 4 d (Scenedesmus subspicatus) EC₅₀ : 1.1 mg/l 3 d (Chlorella pyrenoidosa)
2579-20-6	1,3-Cyclohexanedimethanamine	LC₅₀ : >100 mg/l 4 d (Leuciscus idus (golden orfe)) EC₅₀ : 29 mg/l 2 d (Daphnia magna (Big water flea)) OECD 202 EC₅₀ : 276 mg/l 3 d (Pseudokirchneriella subcapitata) OECD 201 EC₅₀ : ≥1,000 mg/l (Earthworm)
140-31-8	2-piperazin-1-ylethylamine	LC₅₀ : 2,190 mg/l 4 d (Pimephales promelas (fath ead minnow)) OECD 203 EC₅₀ : 58 mg/l 2 d (Daphnia magna (Big water flea)) OECD 202 ErC₅₀ : >1,000 mg/l 3 d (Pseudokirchneriella subcapitata) OECD 201 EC₅₀ : 494 mg/l 2 d (Senastrum capricornutum) LC₅₀ : 368 mg/l 4 d (Poecilia reticulata (Guppy))

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CAS No.	Substance name	Toxicological information
61788-44-1	Phenol, styrenated	LC₅₀ : 14.8 mg/l 4 d (Brachydanio rerio (zebrafish)) OECD 203 EC₅₀ : >1 - 10 mg/l 2 d (Daphnia magna (Big water flea)) OECD 202 EC₅₀ : 3.14 mg/l 3 d (Scenedesmus subspicatus) OECD 201 NOEC : 1.9 mg/l 12 d (Oryzias latipes (Ricefish)) NOEC : 0.2 mg/l 21 d (Daphnia magna (Big water flea))

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
69-72-7	salicylic acid	Yes, rapidly	Method: OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F. Biodegradation: 88,1 %, Test duration: 14 d
1477-55-0	1,3-Benzenedimethanamine	No	Biodegradation: 22 %, Test duration: 28 d, Method: OECD 302 C, Biodegradation: 49 %, Test duration: 28 d, Method: OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C
108-46-3	resorcinol	Yes, rapidly	Biodegradation: 66,7 %, Test duration: 14 d, Method: OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F, Biodegradation: 97 %, Test duration: 4 d, Method: OECD 302B/ ISO 9888/ EEC 92/69/V, C.9, Biodegradation: 90 - 95 %, Test duration: 7 - 15 d
2579-20-6	1,3-Cyclohexanedimethanamine	No	Biodegradation: 29 %, Test duration: 28 d, Method: OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C; Biodegradation: 92 - 96 %, Test duration: 28 d, Method: OECD 303/ EEC 92/69/V, C10
140-31-8	2-piperazin-1-ylethylamine	No	Biodegradation: 0 %, Test duration: 28 d, Method: OECD F
61788-44-1	Phenol, styrenated	No	Biodegradation: 4 %, Method: 310

12.3. Bioaccumulative potential

CAS No.	Substance name	Log K _{OC}	Bioconcentration factor (BCF)
69-72-7	salicylic acid	2.26	
1477-55-0	1,3-Benzenedimethanamine	0.18	3 Species: Cyprinus carpio (Common Carp)
108-46-3	resorcinol	0.8	
2579-20-6	1,3-Cyclohexanedimethanamine	0.44	
140-31-8	2-piperazin-1-ylethylamine	-1.48	
61788-44-1	Phenol, styrenated	4	

Partition coefficient: n-octanol/water:

No data available

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12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
1477-55-0	1,3-Benzenedimethanamine	—
108-46-3	resorcinol	—
2579-20-6	1,3-Cyclohexanedimethanamine	—
140-31-8	2-piperazin-1-ylethylamine	—
61788-44-1	Phenol, styrenated	—

not determined

12.6. Other adverse effects

The product has not been tested. The statement is derived from the properties of the single components.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

13.2. Additional information

Do not allow to enter into surface water or drains.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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14.1. UN-No.

UN 2735

UN 2735

UN 2735

UN 2735

14.2. UN proper shipping name





AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Cyclohexanedimethanamine, 2-piperazin-1-ylethylamine)

AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Cyclohexanedimethanamine, 2-piperazin-1-ylethylamine)

AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Cyclohexanedimethanamine, 2-piperazin-1-ylethylamine, 1,3-Benzenedimethanamine)

AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Cyclohexanedimethanamine, 2-piperazin-1-ylethylamine)

14.3. Transport hazard class(es)

 8	 8	 8	 8
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14.4. Packing group

I	I	I	I
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14.5. Environmental hazards

No	No	No	No
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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.6. Special precautions for user			
Special provisions: 274 Limited quantity (LQ): 0 Excepted Quantities: E0 Hazard identification number (Kemler No.): 88 Classification code: C7 tunnel restriction code: (E) Remark:	Special provisions: 274 Limited quantity (LQ): 0 Excepted Quantities: E0 Classification code: C7 Remark:	Special provisions: 274 Limited quantity (LQ): 0 Excepted Quantities: E0 EmS-No.: F-A, S-B Remark:	Special provisions: A3 Excepted Quantities: E0 Remark:

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Only use containers specifically approved for the substance/product.

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

[DE] National regulations

Water hazard class (WGK)

WGK:

2 - deutlich wassergefährdend

Description:

Classification according to VwVwS, Annex 4.

Other regulations, restrictions and prohibition regulations

Not subject to 96/82/EC

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

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

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Acute toxicity (oral) (<i>Acute Tox. 4</i>)	H302: Harmful if swallowed.	
Acute toxicity (dermal) (<i>Acute Tox. 4</i>)	H312: Harmful in contact with skin.	
Skin corrosion/irritation (<i>Skin Corr. 1</i>)	H314: Causes severe skin burns and eye damage.	
Respiratory or skin sensitisation (<i>Skin Sens. 1A</i>)	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	
Reproductive toxicity (<i>Repr. 2</i>)	H361: Suspected of damaging fertility or the unborn child.	
STOT-repeated exposure (<i>STOT RE 1</i>)	H372: Causes damage to organs through prolonged or repeated exposure. (...)	
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H302	Harmful if swallowed.
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.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.