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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 pro cedure
Skin corrosion/irritation *(Skin Irrit. 2)*	H315: Causes skin irritation.	
Respiratory or skin sensitisation *(Skin Sens. 1)*	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment *(Aquatic Chronic 3)*	H412: Harmful 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

Signal word: Warning

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Hazard components for labelling:
reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700; p-tert-butylphenyl 1-(2,3-epoxy)propyl ether

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	
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements Prevention	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
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/....
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.

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]	Concen-tration
CAS No.: 25068-38-6 **EC No.:** 500-033-5 **REACH No.:** 01-2119456619-26-XXXX	**reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700** Aquatic Chronic 2, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1 H315-H317-H319-H411	1 – < 5 %
CAS No.: 3101-60-8 **EC No.:** 221-453-2	**p-tert-butylphenyl 1-(2,3-epoxy)propyl ether** Aquatic Chronic 2, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1 H315-H317-H319-H411	1 – < 5 %

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

SECTION 4: First aid measures

4.1. Description of first aid measures
General information:
When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation:
Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.

In case of skin contact:
Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not wash with: Solvents/Thinner.

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:
IF SWALLOWED: Immediately call a doctor. Keep at rest. Do NOT induce vomiting.

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4.2. Most important symptoms and effects, both acute and delayed
No data available

4.3. Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO2), Water mist

Unsuitable extinguishing media:
Full water jet

5.2. Special hazards arising from the substance or mixture
Hazardous combustion products:
In case of fire may be liberated: Gases/vapours, harmful

5.3. Advice for firefighters
In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Personal precautions:
Keep away from sources of ignition - No smoking. Ventilate affected area. To follow: SECTION 7: Handling and storage Wear personal protection equipment (refer to section 8).

6.1.2. For emergency responders
No data available

6.2. Environmental precautions
Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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). Dispose of waste according to applicable legislation.

For cleaning up:
Clear contaminated areas thoroughly. (Water (with cleaning agent)). Unsuitable material: Solvent

6.4. Reference to other sections
Safe handling: see section 7 Disposal: see section 13 Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Protective measures
Advices on safe handling:
Do not breathe gas/fumes/vapour/spray. Avoid: Eye contact, Skin contact. When using do not eat, drink or smoke. Wear suitable protective clothing.

Fire prevent measures:
No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities
Packaging materials:
Keep only in the original container in a cool, well-ventilated place.

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Requirements for storage rooms and vessels:
Keep container tightly closed. Never use pressure to empty container. Keep away from sources of ignition - No smoking. Put lids on containers immediately after use. Store detached.

Hints on storage assembly:
Do not store together with: Oxidising agent, Food and feedingstuffs, Strong acid , Alkali (lye)

Storage class: 13 – Non-combustible solids that cannot be assigned to any of the above storage classes

Further information on storage conditions:
Keep only in the original container in a cool, well-ventilated place. Store in a cool dry place. storage temperature: 15 °C - 30°C . Notice the directions for use on the label. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700 CAS No.: 25068-38-6	12.3 mg/m³	① DNEL worker ② inhalative, short-term, systemic, (acute)
reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700 CAS No.: 25068-38-6	8.3 mg/kg	① DNEL worker ② Acute – dermal, systemic effects

Substance name	PNEC Value	① PNEC type
reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700 CAS No.: 25068-38-6	0.006 mg/l	① PNEC aquatic, freshwater
reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700 CAS No.: 25068-38-6	0.0006 mg/l	① PNEC aquatic, marine water

8.2. Exposure controls

8.2.1. Appropriate engineering controls
Provide adequate ventilation as well as local exhaustion at critical locations. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m3 (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m³ (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m³ (1.0 % by vol.)

8.2.2. Personal protection equipment
Eye/face protection:
Eye glasses with side protection

Skin protection:
Tested protective gloves must be worn. By long-term hand contact: Use protective skin cream before handling the product. Suitable gloves type: NBR (Nitrile rubber), FKM (fluoro rubber), PVC (polyvinyl chloride). Thickness of the glove material: > 5 mm. Wear suitable protective clothing and gloves.

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Respiratory protection:
Respiratory protection necessary at: exceeding exposure limit values. Suitable respiratory protection apparatus: Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m3 (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m³ (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m³ (1.0 % by vol.)

Other protection measures:
Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work. Avoid: Skin contact, Eye contact.

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: solid
Colour: grey
Odour: characteristic

Safety relevant basis data

parameter		at °C	Method	Remark
pH	*not determined*			
Melting point	*not determined*			
Freezing point	*not determined*			
Initial boiling point and boiling range	2,230 °C			
Decomposition temperature	*not determined*			
Flash point	*not determined*			
Evaporation rate	*not determined*			
Auto-ignition temperature	*not determined*			
Upper/lower flammability or explosive limits	*not determined*			
Vapour pressure	*not determined*			
Vapour density	*not determined*			
Density	2.14 g/cm³	20 °C		
Bulk density	*not determined*			
Water solubility	*not determined*			
Partition coefficient: n-octanol/ water	*not determined*			
Dynamic viscosity	*not determined*			
Kinematic viscosity	*not determined*			

9.2. Other information
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
No hazardous reaction when handled and stored according to provisions.

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

10.3. Possibility of hazardous reactions
No known hazardous reactions.

10.4. Conditions to avoid
No data available

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10.5. Incompatible materials
Oxidising substances, Acid

10.6. Hazardous decomposition products
Carbon dioxide, Nitrogen oxides (NOx), Carbon monoxide

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700	**LD_{50} oral:** 15,000 mg/kg (Rat) **LD_{50} dermal:** 23,000 mg/kg (Rabbit)

Skin corrosion/irritation:
May cause an allergic skin reaction.

Serious eye damage/irritation:
Processing vapours can irritate the respiratory tracts, skin and eyes.

Respiratory or skin sensitisation:
May cause sensitization by inhalation and skin contact.

SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700	**LC_{50}:** 3.6 mg/l 4 d (fish, Leuciscus idus (golden orfe)) **ErC_{50}:** 220 mg/l 3 d (Algae/water plant) **EC_{50}:** 2.8 mg/l 2 d (crustaceans)

Assessment/classification:
Harmful to aquatic life with long lasting effects.

Additional ecotoxicological information:
Do not allow to enter into soil/subsoil.

12.2. Persistence and degradability
No data available

12.3. Bioaccumulative potential
No data available

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
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700	—

12.6. Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal
Waste codes/waste designations according to EWC/AVV

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Waste code product:

08 02 99	Wastes not otherwise specified

Waste treatment options

Appropriate disposal / Package:

Dispose of waste according to applicable legislation.

13.2. Additional information

Do not empty into drains.

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN-No.			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant			
14.4. Packing group			
not relevant			
14.5. Environmental hazards			
not relevant			
14.6. Special precautions for user			
not relevant			

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

not relevant

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

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

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16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

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 pro cedure
Skin corrosion/irritation *(Skin Irrit. 2)*	H315: Causes skin irritation.	
Respiratory or skin sensitisation *(Skin Sens. 1)*	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment *(Aquatic Chronic 3)*	H412: Harmful 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.

16.6. Training advice

No data available

16.7. Additional information

No data available

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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 pro cedure
Acute toxicity (oral) *(Acute Tox. 4)*	H302: Harmful if swallowed.	
Skin corrosion/irritation *(Skin Corr. 1B)*	H314: Causes severe skin burns and eye damage.	
Respiratory or skin sensitisation *(Skin Sens. 1)*	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation *(Eye Dam. 1)*	H318: Causes serious eye damage.	
Acute toxicity (inhalative) *(Acute Tox. 4)*	H332: Harmful if inhaled.	
Hazardous to the aquatic environment *(Aquatic Chronic 3)*	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:

GHS07
Exclamation mark

GHS05
Corrosion

Signal word: Danger

Hazard components for labelling:
Phenol, 4-nonyl-, branched; 3-aminomethyl-3,5,5-trimethylcyclohexylamine; 1,3-Benzenedimethanamine; benzyl alcohol

hazard statements for health hazards	
H302 + H332	Harmful if swallowed or if inhaled.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.

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

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].
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/....

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]	Concen-tration
CAS No.: 100-51-6 **EC No.:** 202-859-9 **REACH No.:** 01-2119492630-38-XXXX	**benzyl alcohol** Acute Tox. 4 **Warning** H302-H332	50 – < 55 %
CAS No.: 2855-13-2 **EC No.:** 220-666-8 **REACH No.:** 01-2119514687-32-XXXX	**3-aminomethyl-3,5,5-trimethylcyclohexylamine** Acute Tox. 4, Aquatic Chronic 3, Skin Corr. 1B, Skin Sens. 1 **Danger** H302-H312-H314-H317-H412	20 – < 25 %
CAS No.: 1477-55-0 **EC No.:** 216-032-5 **REACH No.:** 01-2119480150-50-XXXX	**1,3-Benzenedimethanamine** Acute Tox. 4, Aquatic Chronic 3, Skin Corr. 1B, Skin Sens. 1 H302-H314-H317-H332-H412	20 – < 25 %

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product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concen-tration
CAS No.: 84852-15-3 **EC No.:** 284-325-5	**Phenol, 4-nonyl-, branched** Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1, Repr. 2, Skin Corr. 1B  **Danger** H302-H314-H361fd-H410	1 – < 5 %

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
Take off immediately all contaminated clothing.

Following inhalation:
Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.

In case of skin contact:
Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not wash with: Solvents/Thinner.In case of skin irritation, consult a physician.

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:
IF SWALLOWED: Immediately call a doctor. Keep at rest. Do NOT induce vomiting. Rinse mouth immediately and drink 1 glass of of water.

4.2. Most important symptoms and effects, both acute and delayed
No data available

4.3. Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO2), Water mist

Unsuitable extinguishing media:
Full water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:
In case of fire may be liberated: Gases/vapours, harmful

5.3. Advice for firefighters
In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:
If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Use personal protection equipment.

6.1.2. For emergency responders
No data available

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6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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). Dispose of waste according to applicable legislation.

For cleaning up:

Clear contaminated areas thoroughly. (Water (with cleaning agent)). Unsuitable material: Solvent

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Do not breathe gas/fumes/vapour/spray. Avoid: Eye contact, Skin contact. When using do not eat, drink or smoke. Wear suitable protective clothing. Provide adequate ventilation.

Fire prevent measures:

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Packaging materials:

Keep only in the original container in a cool, well-ventilated place.

Requirements for storage rooms and vessels:

Keep container tightly closed. Never use pressure to empty container. Put lids on containers immediately after use. Store detached. Provide for retaining containers, eg. floor pan without outflow.

Hints on storage assembly:

Keep away from food, drink and animal feedingstuffs.

Storage class: 8A – Combustible corrosive substances

Further information on storage conditions:

Keep only in the original container in a cool, well-ventilated place. Store in a cool dry place. storage temperature: 15 °C - 30°C . Notice the directions for use on the label. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from direct sunlight.

7.3. Specific end use(s)

Recommendation:

No information available.

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)	benzyl alcohol CAS No.: 100-51-6	① 5 ppm (22 mg/m³) ② 10 ppm ③ 44 ppm ⑤ (Aerosol und Dampf, kann über die Haut aufgenommen werden)

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8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	PNEC Value	① PNEC type
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2	0.06 mg/l	① PNEC aquatic, freshwater
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2	0.006 mg/l	① PNEC aquatic, marine water
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2	3.18 mg/l	① PNEC sewage treatment plant
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2	5.784 mg/kg	① PNEC sediment, freshwater
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2	0.578 mg/kg	① PNEC sediment, marine water
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2	1.121 mg/kg	① PNEC soil
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2	0.23 mg/l	① PNEC aquatic, intermittent release

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m3 (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m³ (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m³ (1.0 % by vol.)

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection

Skin protection:

Tested protective gloves must be worn. By long-term hand contact: Use protective skin cream before handling the product. Suitable gloves type: NBR (Nitrile rubber), FKM (fluoro rubber), PVC (polyvinyl chloride). Thickness of the glove material: > 5 mm. Wear suitable protective clothing and gloves. After contact with skin, wash immediately with plenty of water.

Respiratory protection:

Respiratory protection necessary at: exceeding exposure limit values. Suitable respiratory protection apparatus: Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m3 (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m³ (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m³ (1.0 % by vol.)

Other protection measures:

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work. Avoid: Skin contact, Eye contact.

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: yellow
Odour: Amines

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Safety relevant basis data

parameter		at °C	Method	Remark
pH	*not determined*			
Melting point	*not determined*			
Freezing point	*not determined*			
Initial boiling point and boiling range	> 200 °C			
Decomposition temperature	*not determined*			
Flash point	> 100 °C			
Evaporation rate	*not determined*			
Auto-ignition temperature	380 °C			
Upper/lower flammability or explosive limits	1.2 – 13 Vol-%			
Vapour pressure	*not determined*			
Vapour density	*not determined*			
Density	1.05 g/cm³	23 °C		
Bulk density	*not determined*			
Water solubility	*not determined*			
Partition coefficient: n-octanol/ water	*not determined*			
Dynamic viscosity	400 mPa*s			
Kinematic viscosity	*not determined*			

9.2. Other information

Solubility in different media: Solvent: Immiscible

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Violent reaction with: Acid, Alkali (lye), Oxidising agent

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

No known hazardous decomposition products. In case of fire may be liberated: Gases/vapours, toxic

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
100-51-6	benzyl alcohol	**LD_{50} oral:** 1,230 mg/kg (Rat) **LD_{50} dermal:** 2,000 mg/kg (Rabbit) **LC_{50} Acute inhalation toxicity (gas):** 4,178 ppmV 4 h (Rat)
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	**LD_{50} oral:** 1,030 mg/kg (Rat) OECD 401 **LD_{50} dermal:** >2,000 mg/kg (Rat) OECD 402 **LC_{50} Acute inhalation toxicity (vapour):** >5.01 mg/l 4 h (Rat) OECD 403
1477-55-0	1,3-Benzenedimethanamine	**LD_{50} oral:** 930 mg/kg (Rat) **LD_{50} dermal:** 2,000 mg/kg (Rabbit)
84852-15-3	Phenol, 4-nonyl-, branched	**LD_{50} oral:** 1,300 mg/kg (Rat)

Skin corrosion/irritation:
Causes severe burns. May produce an allergic reaction.

Serious eye damage/irritation:
Causes serious eye damage.

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

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SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
100-51-6	benzyl alcohol	**LC_{50}:** 460 mg/l 4 d (fish, Pimephales promelas (fathead minnow)) **EC_{50}:** 400 mg/l (crustaceans, Daphnia magna (Big water flea)) **EC_{50}:** 640 mg/l 4 d (Algae/water plant, Scenedes mus subspicatus) **LC_{50}:** 27 mg/l 4 d (fish, Lepomis macrochirus (Bl uegill))
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	**LC_{50}:** 110 mg/l 4 d (fish, Leuciscus idus (golden orfe)) **EC_{50}:** 23 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202 **ErC_{50}:** >50 mg/l 3 d (Algae/water plant) **NOEC:** 3 mg/l 21 d (crustaceans, Daphnia magna (Big water flea)) OECD 202 **NOEC:** 1.5 mg/l 3 d (Algae/water plant)
1477-55-0	1,3-Benzenedimethanamine	**EC_{50}:** 15.2 mg/l 2 d (crustaceans, Daphnia pulex (water flea)) OECD 202 **EC_{50}:** 20.3 mg/l 3 d (Algae/water plant, Selenast rum capricornutum) **LC_{50}:** 87.6 mg/l 4 d (fish, Oryzias latipes (Ricefis h)) **LC_{50}:** >100 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) **LC_{50}:** >100 mg/l 4 d (fish, Brachydanio rerio (zebra-fish))
84852-15-3	Phenol, 4-nonyl-, branched	**LC_{50}:** 0.137 mg/l 4 d (fish) **ErC_{50}:** 0.33 mg/l (Algae/water plant) **EC_{50}:** 0.13 mg/l 2 d (crustaceans)

Assessment/classification:
Harmful to aquatic life with long lasting effects.

Additional ecotoxicological information:
Do not allow to enter into soil/subsoil.

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12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	Yes, slowly	
1477-55-0	1,3-Benzenedimethanamine	Yes, slowly	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

12.3. Bioaccumulative potential

CAS No.	Substance name	Log K_{OW}	Bioconcentration factor (BCF)
100-51-6	benzyl alcohol	1.05	
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	0.99	
1477-55-0	1,3-Benzenedimethanamine	0.18	3 Species: Cyprinus carpio (Common Carp)

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
100-51-6	benzyl alcohol	—
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	—
1477-55-0	1,3-Benzenedimethanamine	—
84852-15-3	Phenol, 4-nonyl-, branched	—

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

08 02 99	Wastes not otherwise specified

Waste treatment options

Appropriate disposal / Package:

Dispose of waste according to applicable legislation.

13.2. Additional information

Do not empty into drains.

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 2735	UN 2735	UN 2735	UN 2735
14.2. UN proper shipping name			
AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Benzenedimethanamine , nonylphenol)	AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Benzenedimethanamine , nonylphenol)	AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Benzenedimethanamine , nonylphenol)	AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Benzenedimethanamine , nonylphenol)

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.3. Transport hazard class(es)			
 8	 8	 8	 8
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Special provisions: 274 **Limited quantity (LQ):** 5 L **Excepted Quantities (EQ):** E1 **Hazard identification number (Kemler No.):** 80 **Classification code:** C7 **tunnel restriction code:** (E) **Remark:**	**Special provisions:** 274 **Limited quantity (LQ):** 5 L **Excepted Quantities (EQ):** E1 **Classification code:** C7 **Remark:**	**Special provisions:** 223 | 274 **Limited quantity (LQ):** 5 L **Excepted Quantities (EQ):** E1 **EmS-No.:** F-A, S-B **Remark:**	**Special provisions:** A3 **Excepted Quantities (EQ):** E1 **Remark:**

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation
Authorisations:
Phenol, 4-nonyl-, branched. This substance has been listed as SVHC (substance of very high concern) in the Candidate List according to Article 59 of REACH.

15.1.2. National regulations

[DE] National regulations

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

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16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

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 pro cedure
Acute toxicity (oral) *(Acute Tox. 4)*	H302: Harmful if swallowed.	
Skin corrosion/irritation *(Skin Corr. 1B)*	H314: Causes severe skin burns and eye damage.	
Respiratory or skin sensitisation *(Skin Sens. 1)*	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation *(Eye Dam. 1)*	H318: Causes serious eye damage.	
Acute toxicity (inhalative) *(Acute Tox. 4)*	H332: Harmful if inhaled.	
Hazardous to the aquatic environment *(Aquatic Chronic 3)*	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.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H410	Very 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

No data available

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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 pro cedure
Acute toxicity (oral) *(Acute Tox. 4)*	H302: Harmful if swallowed.	
Skin corrosion/irritation *(Skin Corr. 1B)*	H314: Causes severe skin burns and eye damage.	
Respiratory or skin sensitisation *(Skin Sens. 1)*	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation *(Eye Dam. 1)*	H318: Causes serious eye damage.	
Acute toxicity (inhalative) *(Acute Tox. 4)*	H332: Harmful if inhaled.	
Hazardous to the aquatic environment *(Aquatic Chronic 2)*	H411: Toxic 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:

GHS05
Corrosion

GHS07
Exclamation mark

GHS09
Environment

Signal word: Danger

Hazard components for labelling:
Phenol, 4-nonyl-, branched; 3-aminomethyl-3,5,5-trimethylcyclohexylamine; 1,3-Benzenedimethanamine; 2-piperazin-1-ylethylamine

hazard statements for health hazards	
H302 + H332	Harmful if swallowed or if inhaled.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.

Hazard statements for environmental hazards	
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements Prevention	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
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].
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor/... if you feel unwell.

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]	Concen-tration
CAS No.: 100-51-6 **EC No.:** 202-859-9 **REACH No.:** 01-2119492630-38-XXXX	**benzyl alcohol** Acute Tox. 4 **Warning** H302-H332	35 – < 40 %
CAS No.: 61788-44-1 **EC No.:** 262-975-0 **REACH No.:** 01-2119980970-27-XXXX	**Phenol, styrenated** Aquatic Chronic 2, Skin Irrit. 2, Skin Sens. 1 H315-H317-H411	20 – < 25 %
CAS No.: 2855-13-2 **EC No.:** 220-666-8 **REACH No.:** 01-2119514687-32-XXXX	**3-aminomethyl-3,5,5-trimethylcyclohexylamine** Acute Tox. 4, Aquatic Chronic 3, Skin Corr. 1B, Skin Sens. 1 **Danger** H302-H312-H314-H317-H412	15 – < 20 %

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product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concen-tration
CAS No.: 1477-55-0 **EC No.:** 216-032-5 **REACH No.:** 01-2119480150-50-XXXX	**1,3-Benzenedimethanamine** Acute Tox. 4, Aquatic Chronic 3, Skin Corr. 1B, Skin Sens. 1 H302-H314-H317-H332-H412	15 – < 20 %
CAS No.: 140-31-8 **EC No.:** 205-411-0 **REACH No.:** 01-2119471486-30-XXXX	**2-piperazin-1-ylethylamine** Acute Tox. 4, Aquatic Chronic 3, Skin Corr. 1B, Skin Sens. 1 **Danger** H302-H312-H314-H317-H412	5 – < 10 %
CAS No.: 84852-15-3 **EC No.:** 284-325-5	**Phenol, 4-nonyl-, branched** Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1, Repr. 2, Skin Corr. 1B **Danger** H302-H314-H361fd-H410	1 – < 5 %

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
Take off immediately all contaminated clothing.

Following inhalation:
Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.

In case of skin contact:
Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not wash with: Solvents/Thinner. In case of skin irritation, consult a physician.

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:
IF SWALLOWED: Immediately call a doctor. Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed
No data available

4.3. Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO2), Water mist

Unsuitable extinguishing media:
Full water jet

5.2. Special hazards arising from the substance or mixture
Formation of: Gases/vapours, toxic

Hazardous combustion products:
In case of fire may be liberated: Gases/vapours, harmful

5.3. Advice for firefighters
In case of fire: Wear self-contained breathing apparatus. Full protection suit

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Use personal protection equipment.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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). Dispose of waste according to applicable legislation.

For cleaning up:

Clear contaminated areas thoroughly. (Water (with cleaning agent)). Unsuitable material: Solvent

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Do not breathe gas/fumes/vapour/spray. Avoid: Eye contact, Skin contact. When using do not eat, drink or smoke. Wear suitable protective clothing. Provide adequate ventilation.

Fire prevent measures:

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Packaging materials:

Keep only in the original container in a cool, well-ventilated place.

Requirements for storage rooms and vessels:

Keep container tightly closed. Never use pressure to empty container. Put lids on containers immediately after use. Store detached. Provide for retaining containers, eg. floor pan without outflow.

Hints on storage assembly:

Keep away from food, drink and animal feedingstuffs.

Storage class: 8A – Combustible corrosive substances

Further information on storage conditions:

Keep only in the original container in a cool, well-ventilated place. Store in a cool dry place. storage temperature: 15 °C - 30°C . Notice the directions for use on the label. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from direct sunlight.

7.3. Specific end use(s)

Recommendation:

No information available.

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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)	benzyl alcohol CAS No.: 100-51-6	① 5 ppm (22 mg/m³) ② 10 ppm ③ 44 ppm ⑤ (Aerosol und Dampf, kann über die Haut aufgenommen werden)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
1,3-Benzenedimethanamine CAS No.: 1477-55-0	1.2 mg/m³	① DNEL worker ② inhalative, short-term, local, (acute)
1,3-Benzenedimethanamine CAS No.: 1477-55-0	0.33 mg/kg	① DNEL worker ② dermal, short-term, local, (acute)
2-piperazin-1-ylethylamine CAS No.: 140-31-8	21.4 mg/m³	① DNEL worker ② inhalative, short-term, systemic, (acute)
2-piperazin-1-ylethylamine CAS No.: 140-31-8	20 mg/kg	① DNEL worker ② Acute – dermal, systemic effects

Substance name	PNEC Value	① PNEC type
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2	0.06 mg/l	① PNEC aquatic, freshwater
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2	0.006 mg/l	① PNEC aquatic, marine water
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2	3.18 mg/l	① PNEC sewage treatment plant
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2	5.784 mg/kg	① PNEC sediment, freshwater
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2	0.578 mg/kg	① PNEC sediment, marine water
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2	1.121 mg/kg	① PNEC soil
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2	0.23 mg/l	① PNEC aquatic, intermittent release
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
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

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m3 (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m³ (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m³ (1.0 % by vol.)

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection

Skin protection:

Tested protective gloves must be worn. By long-term hand contact: Use protective skin cream before handling the product. Suitable gloves type: NBR (Nitrile rubber), FKM (fluoro rubber), PVC (polyvinyl chloride). Thickness of the glove material: > 5 mm. Wear suitable protective clothing and gloves. After contact with skin, wash immediately with plenty of water.

Respiratory protection:

Respiratory protection necessary at: exceeding exposure limit values. Suitable respiratory protection apparatus: Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m3 (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m³ (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m³ (1.0 % by vol.)

Other protection measures:

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work. Avoid: Skin contact, Eye contact.

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: yellow
Odour: Amines

Safety relevant basis data

parameter		at °C	Method	Remark
pH	*not determined*			
Melting point	*not determined*			
Freezing point	*not determined*			
Initial boiling point and boiling range	> 220 °C			
Decomposition temperature	*not determined*			
Flash point	> 100 °C			
Evaporation rate	*not determined*			
Auto-ignition temperature	315 °C			
Upper/lower flammability or explosive limits	1 – 10.5 Vol-%			
Vapour pressure	*not determined*			
Vapour density	*not determined*			
Density	1 g/cm³			
Bulk density	*not determined*			
Water solubility	*not determined*			
Partition coefficient: n-octanol/ water	*not determined*			
Dynamic viscosity	475 mPa*s			

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parameter		at °C	Method	Remark
Kinematic viscosity	*not determined*			

9.2. Other information
Solubility in different media: Solvent: Immiscible

SECTION 10: Stability and reactivity

10.1. Reactivity
No hazardous reaction when handled and stored according to provisions.

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

10.3. Possibility of hazardous reactions
Violent reaction with: Acid, Alkali (lye), Oxidising agent

10.4. Conditions to avoid
No information available.

10.5. Incompatible materials
Oxidising agent, strong

10.6. Hazardous decomposition products
No known hazardous decomposition products. In case of fire may be liberated: Gases/vapours, toxic

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
100-51-6	benzyl alcohol	**LD_{50} oral:** 1,230 mg/kg (Rat) **LD_{50} dermal:** 2,000 mg/kg (Rabbit) **LC_{50} Acute inhalation toxicity (gas):** 4,178 ppmV 4 h (Rat)
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	**LD_{50} oral:** 1,030 mg/kg (Rat) OECD 401 **LD_{50} dermal:** >2,000 mg/kg (Rat) OECD 402 **LC_{50} Acute inhalation toxicity (vapour):** >5.01 mg/l 4 h (Rat) OECD 403
1477-55-0	1,3-Benzenedimethanamine	**LD_{50} oral:** 930 mg/kg (Rat) **LD_{50} dermal:** 2,000 mg/kg (Rabbit)
140-31-8	2-piperazin-1-ylethylamine	**LD_{50} oral:** 2,110 mg/kg (Rat) **LD_{50} dermal:** 867 mg/kg (Rabbit)
84852-15-3	Phenol, 4-nonyl-, branched	**LD_{50} oral:** 1,300 mg/kg (Rat)
61788-44-1	Phenol, styrenated	**LD_{50} oral:** >2,000 mg/kg (Rat) **LD_{50} dermal:** >2,000 mg/kg (Rat)

Skin corrosion/irritation:
Causes severe burns. May produce an allergic reaction.

Serious eye damage/irritation:
Causes serious eye damage.

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
100-51-6	benzyl alcohol	**LC_{50}:** 460 mg/l 4 d (fish, Pimephales promelas (fathead minnow)) **EC_{50}:** 400 mg/l (crustaceans, Daphnia magna (Big water flea)) **EC_{50}:** 640 mg/l 4 d (Algae/water plant, Scenedes mus subspicatus) **LC_{50}:** 27 mg/l 4 d (fish, Lepomis macrochirus (Bl uegill))
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	**LC_{50}:** 110 mg/l 4 d (fish, Leuciscus idus (golden orfe)) **EC_{50}:** 23 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202 **ErC_{50}:** >50 mg/l 3 d (Algae/water plant) **NOEC:** 3 mg/l 21 d (crustaceans, Daphnia magna (Big water flea)) OECD 202 **NOEC:** 1.5 mg/l 3 d (Algae/water plant)
1477-55-0	1,3-Benzenedimethanamine	**EC_{50}:** 15.2 mg/l 2 d (crustaceans, Daphnia pulex (water flea)) OECD 202 **EC_{50}:** 20.3 mg/l 3 d (Algae/water plant, Selenast rum capricornutum) **LC_{50}:** 87.6 mg/l 4 d (fish, Oryzias latipes (Ricefis h)) **LC_{50}:** >100 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) **LC_{50}:** >100 mg/l 4 d (fish, Brachydanio rerio (zebra-fish))
140-31-8	2-piperazin-1-ylethylamine	**LC_{50}:** 2,190 mg/l 4 d (fish, Pimephales promelas (fathead minnow)) OECD 203 **EC_{50}:** 58 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202 **ErC_{50}:** >1,000 mg/l 3 d (Algae/water plant, Pseu dokirchneriella subcapitata) OECD 201 **EC_{50}:** 494 mg/l 2 d (Algae/water plant, Selenastr um capricornutum) **LC_{50}:** 368 mg/l 4 d (fish, Poecilia reticulata (Guppy))
84852-15-3	Phenol, 4-nonyl-, branched	**LC_{50}:** 0.137 mg/l 4 d (fish) **ErC_{50}:** 0.33 mg/l (Algae/water plant) **EC_{50}:** 0.13 mg/l 2 d (crustaceans)

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CAS No.	Substance name	Toxicological information
61788-44-1	Phenol, styrenated	**LC_{50}:** 14.8 mg/l 4 d (fish, Brachydanio rerio (zebra-fish)) OECD 203 **EC_{50}:** >1 – 10 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202 **EC_{50}:** 3.14 mg/l 3 d (Algae/water plant, Scenede smus subspicatus) OECD 201 **NOEC:** 1.9 mg/l 12 d (fish, Oryzias latipes (Ricef ish)) **NOEC:** 0.2 mg/l 21 d (crustaceans, Daphnia magna (Big water flea))

Assessment/classification:
Toxic to aquatic life with long lasting effects.

Additional ecotoxicological information:
Do not allow to enter into soil/subsoil.

12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	Yes, slowly	
1477-55-0	1,3-Benzenedimethanamine	Yes, slowly	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
140-31-8	2-piperazin-1-ylethylamine	Yes, slowly	Biodegradation: 0 %, Test duration: 28 d, Method: OECD F
61788-44-1	Phenol, styrenated	Yes, slowly	Biodegradation: 4 %, Method: 310

12.3. Bioaccumulative potential

CAS No.	Substance name	Log K_{OW}	Bioconcentration factor (BCF)
100-51-6	benzyl alcohol	1.05	
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	0.99	
1477-55-0	1,3-Benzenedimethanamine	0.18	3 Species: Cyprinus carpio (Common Carp)
140-31-8	2-piperazin-1-ylethylamine	-1.48	
61788-44-1	Phenol, styrenated	4	

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
100-51-6	benzyl alcohol	—
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	—
1477-55-0	1,3-Benzenedimethanamine	—
140-31-8	2-piperazin-1-ylethylamine	—
84852-15-3	Phenol, 4-nonyl-, branched	—
61788-44-1	Phenol, styrenated	—

12.6. Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Dispose of waste according to applicable legislation.

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13.1.1. Product/Packaging disposal
Waste codes/waste designations according to EWC/AVV

Waste code product:

08 02 99	Wastes not otherwise specified

Waste treatment options
Appropriate disposal / Package:
Dispose of waste according to applicable legislation.

13.2. Additional information
Do not empty into drains.

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 2735	UN 2735	UN 2735	UN 2735
14.2. UN proper shipping name			
AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Benzenedimethanamine , nonylphenol)	AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Benzenedimethanamine , nonylphenol)	AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Benzenedimethanamine , nonylphenol , N-aminoethylpiperazine)	AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Benzenedimethanamine , nonylphenol)
14.3. Transport hazard class(es)			
 8	 8	 8	 8
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
		 MARINE POLLUTANT	No
14.6. Special precautions for user			
Special provisions: 274 **Limited quantity (LQ):** 5 L **Excepted Quantities (EQ):** E1 **Hazard identification number (Kemler No.):** 80 **Classification code:** C7 **tunnel restriction code:** (E) **Remark:**	**Special provisions:** 274 **Limited quantity (LQ):** 5 L **Excepted Quantities (EQ):** E1 **Classification code:** C7 **Remark:**	**Special provisions:** 223 | 274 **Limited quantity (LQ):** 5 L **Excepted Quantities (EQ):** E1 **EmS-No.:** F-A, S-B **Remark:**	**Special provisions:** A3 **Excepted Quantities (EQ):** E1 **Remark:**

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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:
Phenol, 4-nonyl-, branched. This substance has been listed as SVHC (substance of very high concern) in the Candidate List according to Article 59 of REACH.

15.1.2. National regulations

[DE] National regulations

Water hazard class (WGK)

WGK:
3 - stark 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

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 pro cedure
Acute toxicity (oral) *(Acute Tox. 4)*	H302: Harmful if swallowed.	
Skin corrosion/irritation *(Skin Corr. 1B)*	H314: Causes severe skin burns and eye damage.	
Respiratory or skin sensitisation *(Skin Sens. 1)*	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation *(Eye Dam. 1)*	H318: Causes serious eye damage.	
Acute toxicity (inhalative) *(Acute Tox. 4)*	H332: Harmful if inhaled.	
Hazardous to the aquatic environment *(Aquatic Chronic 2)*	H411: Toxic 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.
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.
H332	Harmful if inhaled.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H410	Very toxic to aquatic life with long lasting effects.

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Hazard statements	
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
No data available

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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 pro cedure
Acute toxicity (oral) *(Acute Tox. 4)*	H302: Harmful if swallowed.	
Skin corrosion/irritation *(Skin Corr. 1B)*	H314: Causes severe skin burns and eye damage.	
Respiratory or skin sensitisation *(Skin Sens. 1)*	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation *(Eye Dam. 1)*	H318: Causes serious eye damage.	
Hazardous to the aquatic environment *(Aquatic Chronic 2)*	H411: Toxic 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:

GHS05
Corrosion

GHS07
Exclamation mark

GHS09
Environment

Signal word: Danger

Hazard components for labelling:
Phenol, styrenated; 2-piperazin-1-ylethylamine; 3-aminomethyl-3,5,5-trimethylcyclohexylamine; 1,3-Benzenedimethanamine

hazard statements for health hazards	
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.

Hazard statements for environmental hazards	
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements Prevention	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
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].
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor/... if you feel unwell.

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]	Concen-tration
CAS No.: 61788-44-1 **EC No.:** 262-975-0 **REACH No.:** 01-2119980970-27-XXXX	**Phenol, styrenated** Aquatic Chronic 2, Skin Irrit. 2, Skin Sens. 1  H315-H317-H411	50 – < 55 %
CAS No.: 100-51-6 **EC No.:** 202-859-9 **REACH No.:** 01-2119492630-38-XXXX	**benzyl alcohol** Acute Tox. 4  **Warning** H302-H332	15 – < 20 %
CAS No.: 140-31-8 **EC No.:** 205-411-0 **REACH No.:** 01-2119471486-30-XXXX	**2-piperazin-1-ylethylamine** Acute Tox. 4, Aquatic Chronic 3, Skin Corr. 1B, Skin Sens. 1  **Danger** H302-H312-H314-H317-H412	15 – < 20 %

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product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concen-tration
CAS No.: 2855-13-2 **EC No.:** 220-666-8 **REACH No.:** 01-2119514687-32-XXXX	**3-aminomethyl-3,5,5-trimethylcyclohexylamine** Acute Tox. 4, Aquatic Chronic 3, Skin Corr. 1B, Skin Sens. 1  **Danger** H302-H312-H314-H317-H412	1 – < 5 %
CAS No.: 1477-55-0 **EC No.:** 216-032-5 **REACH No.:** 01-2119480150-50-XXXX	**1,3-Benzenedimethanamine** Acute Tox. 4, Aquatic Chronic 3, Skin Corr. 1B, Skin Sens. 1 H302-H314-H317-H332-H412	1 – < 5 %
CAS No.: 84852-15-3 **EC No.:** 284-325-5	**Phenol, 4-nonyl-, branched** Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1, Repr. 2, Skin Corr. 1B  **Danger** H302-H314-H361fd-H410	< 1 %

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
Take off immediately all contaminated clothing.

Following inhalation:
Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.

In case of skin contact:
Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not wash with: Solvents/Thinner. In case of skin irritation, consult a physician.

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:
IF SWALLOWED: Immediately call a doctor. Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water.

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

No data available

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO2), Water mist

Unsuitable extinguishing media:
Full water jet

5.2. Special hazards arising from the substance or mixture

Formation of: Gases/vapours, toxic

Hazardous combustion products:
In case of fire may be liberated: Gases/vapours, harmful

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protection suit

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Use personal protection equipment.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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). Dispose of waste according to applicable legislation.

For cleaning up:

Clear contaminated areas thoroughly. (Water (with cleaning agent)). Unsuitable material: Solvent

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Do not breathe gas/fumes/vapour/spray. Avoid: Eye contact, Skin contact. When using do not eat, drink or smoke. Wear suitable protective clothing. Provide adequate ventilation.

Fire prevent measures:

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Packaging materials:

Keep only in the original container in a cool, well-ventilated place.

Requirements for storage rooms and vessels:

Keep container tightly closed. Never use pressure to empty container. Put lids on containers immediately after use. Store detached. Provide for retaining containers, eg. floor pan without outflow.

Hints on storage assembly:

Keep away from food, drink and animal feedingstuffs.

Storage class: 8A – Combustible corrosive substances

Further information on storage conditions:

Keep only in the original container in a cool, well-ventilated place. Store in a cool dry place. storage temperature: 15 °C - 30°C . Notice the directions for use on the label. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from direct sunlight.

7.3. Specific end use(s)

Recommendation:

No information available.

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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)	benzyl alcohol CAS No.: 100-51-6	① 5 ppm (22 mg/m³) ② 10 ppm ③ 44 ppm ⑤ (Aerosol und Dampf, kann über die Haut aufgenommen werden)

8.1.2. Biological limit values

No data available

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/m³	① DNEL worker ② inhalative, short-term, systemic, (acute)
2-piperazin-1-ylethylamine CAS No.: 140-31-8	20 mg/kg	① DNEL worker ② Acute – dermal, systemic effects
1,3-Benzenedimethanamine CAS No.: 1477-55-0	1.2 mg/m³	① DNEL worker ② inhalative, short-term, local, (acute)
1,3-Benzenedimethanamine CAS No.: 1477-55-0	0.33 mg/kg	① DNEL worker ② dermal, short-term, local, (acute)

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
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2	0.06 mg/l	① PNEC aquatic, freshwater
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2	0.006 mg/l	① PNEC aquatic, marine water
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2	3.18 mg/l	① PNEC sewage treatment plant
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2	5.784 mg/kg	① PNEC sediment, freshwater
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2	0.578 mg/kg	① PNEC sediment, marine water
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2	1.121 mg/kg	① PNEC soil
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2	0.23 mg/l	① PNEC aquatic, intermittent release
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

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m3 (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m³ (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m³ (1.0 % by vol.)

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection

Skin protection:

Tested protective gloves must be worn. By long-term hand contact: Use protective skin cream before handling the product. Suitable gloves type: NBR (Nitrile rubber), FKM (fluoro rubber), PVC (polyvinyl chloride). Thickness of the glove material: > 5 mm. Wear suitable protective clothing and gloves. After contact with skin, wash immediately with plenty of water.

Respiratory protection:

Respiratory protection necessary at: exceeding exposure limit values. Suitable respiratory protection apparatus: Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m3 (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m³ (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m³ (1.0 % by vol.)

Other protection measures:

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work. Avoid: Skin contact, Eye contact.

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: yellow
Odour: Amines

Safety relevant basis data

parameter		at °C	Method	Remark
pH	*not determined*			
Melting point	*not determined*			
Freezing point	*not determined*			
Initial boiling point and boiling range	> 220 °C			
Decomposition temperature	*not determined*			
Flash point	> 100 °C			
Evaporation rate	*not determined*			
Auto-ignition temperature	315 °C			
Upper/lower flammability or explosive limits	1 – 10.5 Vol-%			
Vapour pressure	*not determined*			
Vapour density	*not determined*			
Density	0.97 g/cm³			
Bulk density	*not determined*			
Water solubility	*not determined*			
Partition coefficient: n-octanol/ water	*not determined*			
Dynamic viscosity	550 mPa*s			

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parameter		at °C	Method	Remark
Kinematic viscosity	*not determined*			

9.2. Other information
Solubility in different media: Solvent: Immiscible

SECTION 10: Stability and reactivity

10.1. Reactivity
No hazardous reaction when handled and stored according to provisions.

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

10.3. Possibility of hazardous reactions
Violent reaction with: Acid, Alkali (lye), Oxidising agent

10.4. Conditions to avoid
No information available.

10.5. Incompatible materials
Oxidising agent, strong

10.6. Hazardous decomposition products
No known hazardous decomposition products. In case of fire may be liberated: Gases/vapours, toxic

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
100-51-6	benzyl alcohol	**LD_{50} oral:** 1,230 mg/kg (Rat) **LD_{50} dermal:** 2,000 mg/kg (Rabbit) **LC_{50} Acute inhalation toxicity (gas):** 4,178 ppmV 4 h (Rat)
140-31-8	2-piperazin-1-ylethylamine	**LD_{50} oral:** 2,110 mg/kg (Rat) **LD_{50} dermal:** 867 mg/kg (Rabbit)
61788-44-1	Phenol, styrenated	**LD_{50} oral:** >2,000 mg/kg (Rat) **LD_{50} dermal:** >2,000 mg/kg (Rat)
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	**LD_{50} oral:** 1,030 mg/kg (Rat) OECD 401 **LD_{50} dermal:** >2,000 mg/kg (Rat) OECD 402 **LC_{50} Acute inhalation toxicity (vapour):** >5.01 mg/l 4 h (Rat) OECD 403
1477-55-0	1,3-Benzenedimethanamine	**LD_{50} oral:** 930 mg/kg (Rat) **LD_{50} dermal:** 2,000 mg/kg (Rabbit)
84852-15-3	Phenol, 4-nonyl-, branched	**LD_{50} oral:** 1,300 mg/kg (Rat)

Skin corrosion/irritation:
Causes severe burns. May produce an allergic reaction.

Serious eye damage/irritation:
Causes serious eye damage.

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
100-51-6	benzyl alcohol	**LC_{50}:** 460 mg/l 4 d (fish, Pimephales promelas (fathead minnow)) **EC_{50}:** 400 mg/l (crustaceans, Daphnia magna (Big water flea)) **EC_{50}:** 640 mg/l 4 d (Algae/water plant, Scenedes mus subspicatus) **LC_{50}:** 27 mg/l 4 d (fish, Lepomis macrochirus (Bl uegill))
140-31-8	2-piperazin-1-ylethylamine	**LC_{50}:** 2,190 mg/l 4 d (fish, Pimephales promelas (fathead minnow)) OECD 203 **EC_{50}:** 58 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202 **ErC_{50}:** >1,000 mg/l 3 d (Algae/water plant, Pseu dokirchneriella subcapitata) OECD 201 **EC_{50}:** 494 mg/l 2 d (Algae/water plant, Selenastr um capricornutum) **LC_{50}:** 368 mg/l 4 d (fish, Poecilia reticulata (Guppy))
61788-44-1	Phenol, styrenated	**LC_{50}:** 14.8 mg/l 4 d (fish, Brachydanio rerio (zebra-fish)) OECD 203 **EC_{50}:** >1 – 10 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202 **EC_{50}:** 3.14 mg/l 3 d (Algae/water plant, Scenede smus subspicatus) OECD 201 **NOEC:** 1.9 mg/l 12 d (fish, Oryzias latipes (Ricef ish)) **NOEC:** 0.2 mg/l 21 d (crustaceans, Daphnia magna (Big water flea))
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	**LC_{50}:** 110 mg/l 4 d (fish, Leuciscus idus (golden orfe)) **EC_{50}:** 23 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202 **ErC_{50}:** >50 mg/l 3 d (Algae/water plant) **NOEC:** 3 mg/l 21 d (crustaceans, Daphnia magna (Big water flea)) OECD 202 **NOEC:** 1.5 mg/l 3 d (Algae/water plant)
1477-55-0	1,3-Benzenedimethanamine	**EC_{50}:** 15.2 mg/l 2 d (crustaceans, Daphnia pulex (water flea)) OECD 202 **EC_{50}:** 20.3 mg/l 3 d (Algae/water plant, Selenast rum capricornutum) **LC_{50}:** 87.6 mg/l 4 d (fish, Oryzias latipes (Ricefis h)) **LC_{50}:** >100 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) **LC_{50}:** >100 mg/l 4 d (fish, Brachydanio rerio (zebra-fish))

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CAS No.	Substance name	Toxicological information
84852-15-3	Phenol, 4-nonyl-, branched	**LC_{50}:** 0.137 mg/l 4 d (fish) **ErC_{50}:** 0.33 mg/l (Algae/water plant) **EC_{50}:** 0.13 mg/l 2 d (crustaceans)

Assessment/classification:
Toxic to aquatic life with long lasting effects.

Additional ecotoxicological information:
Do not allow to enter into soil/subsoil.

12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
140-31-8	2-piperazin-1-ylethylamine	Yes, slowly	Biodegradation: 0 %, Test duration: 28 d, Method: OECD F
61788-44-1	Phenol, styrenated	Yes, slowly	Biodegradation: 4 %, Method: 310
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	Yes, slowly	
1477-55-0	1,3-Benzenedimethanamine	Yes, slowly	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

12.3. Bioaccumulative potential

CAS No.	Substance name	Log K_{OW}	Bioconcentration factor (BCF)
100-51-6	benzyl alcohol	1.05	
140-31-8	2-piperazin-1-ylethylamine	-1.48	
61788-44-1	Phenol, styrenated	4	
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	0.99	
1477-55-0	1,3-Benzenedimethanamine	0.18	3 Species: Cyprinus carpio (Common Carp)

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
100-51-6	benzyl alcohol	—
140-31-8	2-piperazin-1-ylethylamine	—
61788-44-1	Phenol, styrenated	—
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	—
1477-55-0	1,3-Benzenedimethanamine	—
84852-15-3	Phenol, 4-nonyl-, branched	—

12.6. Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal
Waste codes/waste designations according to EWC/AVV

Waste code product:

08 02 99	Wastes not otherwise specified

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Waste treatment options

Appropriate disposal / Package:
Dispose of waste according to applicable legislation.

13.2. Additional information

Do not empty into drains.

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 2735	UN 2735	UN 2735	UN 2735
14.2. UN proper shipping name			
AMINES, LIQUID, CORROSIVE, N.O.S. (N-aminoethylpiperazine)	AMINES, LIQUID, CORROSIVE, N.O.S. (N-aminoethylpiperazine)	AMINES, LIQUID, CORROSIVE, N.O.S. (N-aminoethylpiperazine)	AMINES, LIQUID, CORROSIVE, N.O.S. (N-aminoethylpiperazine)
14.3. Transport hazard class(es)			
 8	 8	 8	 8
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
		 MARINE POLLUTANT	No
14.6. Special precautions for user			
Special provisions: 274 **Limited quantity (LQ):** 5 L **Excepted Quantities (EQ):** E1 **Hazard identification number (Kemler No.):** 80 **Classification code:** C7 **tunnel restriction code:** (E) **Remark:**	**Special provisions:** 274 **Limited quantity (LQ):** 5 L **Excepted Quantities (EQ):** E1 **Classification code:** C7 **Remark:**	**Special provisions:** 223 | 274 **Limited quantity (LQ):** 5 L **Excepted Quantities (EQ):** E1 **EmS-No.:** F-A, S-B **Remark:**	**Special provisions:** A3 **Excepted Quantities (EQ):** E1 **Remark:**

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

No data available

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SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

Phenol, 4-nonyl-, branched. This substance has been listed as SVHC (substance of very high concern) in the Candidate List according to Article 59 of REACH.

15.1.2. National regulations

[DE] National regulations

Water hazard class (WGK)

WGK:

3 - stark 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

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 pro cedure
Acute toxicity (oral) *(Acute Tox. 4)*	H302: Harmful if swallowed.	
Skin corrosion/irritation *(Skin Corr. 1B)*	H314: Causes severe skin burns and eye damage.	
Respiratory or skin sensitisation *(Skin Sens. 1)*	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation *(Eye Dam. 1)*	H318: Causes serious eye damage.	
Hazardous to the aquatic environment *(Aquatic Chronic 2)*	H411: Toxic 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.
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.
H332	Harmful if inhaled.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
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.

16.6. Training advice

No data available

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16.7. Additional information

No data available

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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 pro cedure
Acute toxicity (oral) *(Acute Tox. 4)*	H302: Harmful if swallowed.	
Respiratory or skin sensitisation *(Skin Sens. 1)*	H317: May cause an allergic skin reaction.	
Hazardous to the aquatic environment *(Aquatic Acute 1)*	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment *(Aquatic Chronic 1)*	H410: Very 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:
pentaerythritol tetrakis(3-mercaptopropionate); 3-mercaptopropionic acid

hazard statements for health hazards	
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.

Hazard statements for environmental hazards	
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements Prevention	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
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/....
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.

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]	Concen-tration
CAS No.: 7575-23-7 **EC No.:** 231-472-8	**pentaerythritol tetrakis(3-mercaptopropionate)** Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1, Skin Sens. 1 H302-H317-H400-H410 M-factor (acute): 1	95 – ≤ 100 %
CAS No.: 107-96-0 **EC No.:** 203-537-0	**3-mercaptopropionic acid** Acute Tox. 3, Acute Tox. 4, Met. Corr. 1, Skin Corr. 1A H290-H301-H314-H332	< 1 %

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

SECTION 4: First aid measures

4.1. Description of first aid measures
General information:
Take off immediately all contaminated clothing.

Following inhalation:
Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.

In case of skin contact:
Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not wash with: Solvents/Thinner.

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:
Induce vomiting when the affected person is not unconscious. Rinse mouth immediately and drink plenty of water. Call a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed
No data available

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4.3. Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO2), Water mist

Unsuitable extinguishing media:
Full water jet

5.2. Special hazards arising from the substance or mixture
Hazardous combustion products:
In case of fire may be liberated: Gases/vapours, toxic

5.3. Advice for firefighters
In case of fire: Wear self-contained breathing apparatus. Full protection suit. If decomposition products are inhaled the following symptoms can occur: Harmful

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Personal precautions:
If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Use personal protection equipment.

6.1.2. For emergency responders
No data available

6.2. Environmental precautions
Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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). Dispose of waste according to applicable legislation.

For cleaning up:
Clear contaminated areas thoroughly. (Water (with cleaning agent)). Unsuitable material: Solvent

6.4. Reference to other sections
Safe handling: see section 7 Disposal: see section 13 Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Protective measures
Advices on safe handling:
Do not breathe gas/fumes/vapour/spray. Avoid: Eye contact, Skin contact. When using do not eat, drink or smoke. Wear suitable protective clothing. (See section 8.)Provide adequate ventilation.

Fire prevent measures:
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

7.2. Conditions for safe storage, including any incompatibilities
Packaging materials:
Keep only in the original container in a cool, well-ventilated place.

Requirements for storage rooms and vessels:
Keep container tightly closed. Never use pressure to empty container. Put lids on containers immediately after use. Store detached. Provide for retaining containers, eg. floor pan without outflow.

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Hints on storage assembly:
Keep away from food, drink and animal feedingstuffs.

Storage class: 10 – Combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:
Keep only in the original container in a cool, well-ventilated place. Store in a cool dry place. storage temperature: 15 °C - 30°C . Notice the directions for use on the label. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from direct sunlight.

7.3. Specific end use(s)

Recommendation:
No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m3 (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m³ (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m³ (1.0 % by vol.)

8.2.2. Personal protection equipment

Eye/face protection:
Eye glasses with side protection

Skin protection:
Tested protective gloves must be worn. By long-term hand contact: Use protective skin cream before handling the product. Suitable gloves type: NBR (Nitrile rubber), FKM (fluoro rubber), PVC (polyvinyl chloride). Thickness of the glove material: > 5 mm. Wear suitable protective clothing and gloves. After contact with skin, wash immediately with plenty of water.

Respiratory protection:
Respiratory protection necessary at: exceeding exposure limit values. Suitable respiratory protection apparatus: Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m3 (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m³ (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m³ (1.0 % by vol.)

Other protection measures:
Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work. Avoid: Skin contact, Eye contact.

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: colourless
Odour: characteristic

Safety relevant basis data

parameter		at °C	Method	Remark
pH	*not determined*			
Melting point	-40.1 °C			
Freezing point	*not determined*			

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parameter		at °C	Method	Remark
Initial boiling point and boiling range	520 °C			
Decomposition temperature	*not determined*			
Flash point	214 °C			
Evaporation rate	*not determined*			
Auto-ignition temperature	300 – 400 °C			
Upper/lower flammability or explosive limits	*not determined*			
Vapour pressure	*not determined*			
Vapour density	*not determined*			
Density	1.27 – 1.28 g/cm³	20 °C		
Bulk density	*not determined*			
Water solubility	3.69 g/l	20 °C		
Partition coefficient: n-octanol/ water	*not determined*			
Dynamic viscosity	*not determined*			
Kinematic viscosity	*not determined*			

9.2. Other information

Solubility in different media: Solvent: Immiscible

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions. (SECTION 7: Handling and storage)

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

No known hazardous decomposition products. In case of fire may be liberated: Gases/vapours, toxic

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
7575-23-7	pentaerythritol tetrakis(3-mercaptopropionate)	**LD_{50} oral:** 1,000 – 2,000 mg/kg (Rat) **LC_{50} Acute inhalation toxicity (vapour):** 20 mg/l (Rat)
107-96-0	3-mercaptopropionic acid	**LD_{50} oral:** 96 mg/kg (Rat) **ATE inhalativ Gase:** 1.5 ppmV **ATE inhalativ Dämpfe:** 11 mg/l

Acute inhalation toxicity:

Harmful if swallowed or if inhaled.

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Skin corrosion/irritation:
May cause an allergic skin reaction.

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
7575-23-7	pentaerythritol tetrakis(3-mercaptopropionate)	**LC_{50}:** 0.42 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) **EC_{50}:** 0.71 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))

Assessment/classification:
Very toxic to aquatic life with long lasting effects.

Additional ecotoxicological information:
Do not allow to enter into soil/subsoil.

12.2. Persistence and degradability
No data available

12.3. Bioaccumulative potential
No data available

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
7575-23-7	pentaerythritol tetrakis(3-mercaptopropionate)	—

12.6. Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal
Waste codes/waste designations according to EWC/AVV

Waste code product:

16 05 08 *	discarded organic chemicals consisting of or containing hazardous substances

*: Evidence for disposal must be provided.

Waste treatment options
Appropriate disposal / Package:
Dispose of waste according to applicable legislation.

13.2. Additional information
Do not empty into drains.

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

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.2. UN proper shipping name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (pentaerythritol tetrakis(3-mercaptopropionate))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (pentaerythritol tetrakis(3-mercaptopropionate))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (pentaerythritol tetrakis(3-mercaptopropionate))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (pentaerythritol tetrakis(3-mercaptopropionate))
14.3. Transport hazard class(es)			
 9	 9	 9	 9
14.4. Packing group			
III	III	III	III
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 (EQ):** E1 **Hazard identification number (Kemler No.):** 90 **Classification code:** M6 **tunnel restriction code:** (-) **Remark:**	**Special provisions:** 274 | 335 | 375 | 601 **Limited quantity (LQ):** 5 L **Excepted Quantities (EQ):** E1 **Classification code:** M6 **Remark:**	**Special provisions:** 274 | 335 | 969 **Limited quantity (LQ):** 5 L **Excepted Quantities (EQ):** E1 **EmS-No.:** F-A, S-F **Remark:**	**Special provisions:** A97 | A158 | A197 **Excepted Quantities (EQ):** E1 **Remark:**

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

No data available

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

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15.1.2. National regulations

[DE] National regulations

Water hazard class (WGK)

WGK:
3 - stark 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

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 pro cedure
Acute toxicity (oral) *(Acute Tox. 4)*	H302: Harmful if swallowed.	
Respiratory or skin sensitisation *(Skin Sens. 1)*	H317: May cause an allergic skin reaction.	
Hazardous to the aquatic environment *(Aquatic Acute 1)*	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment *(Aquatic Chronic 1)*	H410: Very toxic to aquatic life with long lasting effects.	

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

Hazard statements	
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

No data available