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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: Private households (= general public = consumers)

1.3. Details of the supplier of the safety data sheet

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

Euroteam Bauchemie GmbH
An der Mühle 1
15345 Altlandsberg
Germany
Telephone: +49 (0) 33438 14790
Telefax: +49 (0) 33438 147929
E-mail: info@euroteam-bauchemie.de
Website: www.euroteam-bauchemie.de
E-mail (competent person): info@euroteam-bauchemie.de

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation *(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 2)*	H411: Toxic to aquatic life with long lasting effects.	

2.2. Label elements

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

Hazard pictograms:

GHS07
Exclamation mark

GHS09
Environment

Signal word: Warning

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Hazard components for labelling:
reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700; bisphenol-F-(epichlorhydrin)epoxy resin; Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

hazard statements for health hazards	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

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

Supplemental Hazard information (EU)	
EUH205	Contains epoxy constituents. May produce an allergic reaction.

Precautionary statements Prevention	
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements Response	
P302 + P352.1	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

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** Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2 H315-H317-H319-H411	50 – 100 Wt %
CAS No.: 55492-52-9 **EC No.:** 611-275-7	**bisphenol-F-(epichlorhydrin)epoxy resin** Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2 H315-H317-H319-H411	25 – 50 Wt %
CAS No.: 68609-97-2 **EC No.:** 271-846-8	**Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.** Skin Irrit. 2, Skin Sens. 1 **Warning** H315-H317	10 – 25 Wt %

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

SECTION 4: First aid measures

4.1. Description of first aid measures
General information:
Wash contaminated clothing immediately.

Following inhalation:
Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

In case of skin contact:
After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

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

After ingestion:
Seek medical advice immediately.

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

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

SECTION 5: Firefighting measures

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

Unsuitable extinguishing media:
High power water jet

5.2. Special hazards arising from the substance or mixture
In case of fire may be liberated: Gases, Toxic

5.3. Advice for firefighters
In case of fire: Wear self-contained breathing apparatus. Use personal protection equipment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

5.4. Additional information
No data available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Personal precautions:
Use personal protection equipment.

6.1.2. For emergency responders
Personal protection equipment:
Wear personal protection equipment (refer to section 8).

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

6.3. Methods and material for containment and cleaning up
For cleaning up:
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Dispose of waste according to applicable legislation. (Disposal: see section 13) Provide adequate ventilation.

6.4. Reference to other sections
No data available

6.5. Additional information
No data available

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:
Wear personal protection equipment (refer to section 8). Avoid contact with skin, eyes and clothes. Provide adequate ventilation as well as local exhaustion at critical locations.

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

Advices on general occupational hygiene
When using do not eat, drink or smoke. Wash hands before breaks and after work. Take off contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:
Keep/Store only in original container. Provide for retaining containers, eg. floor pan without outflow. Keep container tightly closed.

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

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 DNEL acute inhalative (systemic)
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 DNEL acute dermal, short-term (systemic)

Substance name	PNEC Value	① PNEC type
reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700 CAS No.: 25068-38-6	0.003 mg/l	① PNEC aquatic, freshwater
reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700 CAS No.: 25068-38-6	0.0003 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.

8.2.2. Personal protection equipment

Eye/face protection:
Eye glasses with side protection

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Skin protection:
Suitable gloves type: NBR (Nitrile rubber), FKM (fluoro rubber), PVC (Polyvinyl chloride). Thickness of the glove material: >= 0,5 mm. Unsuitable material:Leather articles, Thick fabric The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Breakthrough times and swelling properties of the material must be taken into consideration.Wear suitable protective clothing. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Use protective skin cream before handling the product.

Respiratory protection:
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Combination filtering device (EN 14387) ABEK-P2

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

8.2.3. Environmental exposure controls
Do not allow to enter into surface water or drains.

8.3. Additional information
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: characteristic

Safety relevant basis data

parameter		at °C	method	Remark
pH	*No data available*			
Melting point/freezing point	*not determined*			
Freezing point	*not determined*			
Initial boiling point and boiling range	> 200 °C			
Decomposition temperature (°C):	*No data available*			
Flash point	> 150 °C			
Evaporation rate	*No data available*			
Ignition temperature in °C	*No data available*			
Upper/lower flammability or explosive limits	*not applicable*			
Vapour pressure	*No data available*			
Vapour density	*No data available*			
Density	1.1 g/cm³	23 °C		
Bulk density	*not determined*			
Water solubility (g/L)	Immiscible			
Partition coefficient: n-octanol/ water	*not determined*			
Dynamic viscosity	950 mPa*s	23 °C		
Kinematic viscosity	*No data available*			
Auto-ignition temperature	*not applicable*			

9.2. Other information
No data available

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SECTION 10: Stability and reactivity

10.1. Reactivity
No data available

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

10.3. Possibility of hazardous reactions
Exothermic reaction with: Amines, Acid, Alkali (lye)

10.4. Conditions to avoid
No information available.

10.5. Incompatible materials
Oxidising agent, strong

10.6. Hazardous decomposition products
Does not decompose when used for intended uses. In case of fire may be liberated: Gases, vapour

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)
55492-52-9	bisphenol-F-(epichlorhydrin)epoxy resin	**LD_{50} oral:** >5,000 mg/kg (Rat)

Skin corrosion/irritation:
Irritating to skin.

Eye damage/irritation:
Irritating to eyes.

Respiratory or skin sensitisation:
May cause sensitisation by skin contact.

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

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 (Leuciscus idus (golden orfe)) **ErC_{50}:** 220 mg/l 3 d **EC_{50}:** 2.8 mg/l 2 d

Aquatic toxicity:
Toxic to aquatic life with long lasting effects. Toxic to fish.

12.2. Persistence and degradability
Additional information:
No information available.

12.3. Bioaccumulative potential
Accumulation / Evaluation:
No information available.

12.4. Mobility in soil
No data available

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12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700	—
55492-52-9	bisphenol-F-(epichlorhydrin)epoxy resin	—

12.6. Other adverse effects

Discharge into the environment must be avoided. Do not allow to enter into surface water or drains. The product has not been tested. The statement is derived from the properties of the single components.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

08 01 11 *	Waste paint and varnish containing organic solvents or other dangerous substances
08 02 99	wastes from MFSU of other coatings (including ceramic materials): Wastes not otherwise specified

*: Evidence for disposal must be provided.

Waste treatment options

Appropriate disposal / Package:

Dispose of waste according to applicable legislation.

13.2. Additional information

No data available

SECTION 14: Transport information

Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)	
14.1. UN-No.			
3082	3082	3082	
14.2. UN proper shipping name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700)	
14.3. Transport hazard class(es)			
9	9	9	
14.4. Packing group			
III	III	III	

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Land transport (ADR/ RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)	
14.5. Environmental hazards			
	MARINE POLLUTANT	No	
14.6. Special precautions for user			
Special provisions: **Limited quantity (LQ):** 5L **Hazard identification number (Kemler No.):** 90 **Classification code:** - **tunnel restriction code:** E **Remark:** Excepted quantities (EQ): E. transport category: 3	**Special provisions:** **Limited quantity (LQ):** **EmS-No.:** F-A; S-F **Remark:**	**Special provisions:** **Limited quantity (LQ):** **Remark:**	

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

not applicable

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

Other regulations, restrictions and prohibition regulations

Berufsgenossenschaftliche Vorschriften (BGV): D 25. Berufsgenossenschaftliche Regeln (BGR) 227; 190; 192.

15.2. Chemical Safety Assessment

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

15.3. Additional information

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

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

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation *(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 2)*	H411: Toxic to aquatic life with long lasting effects.	

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

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

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: Private households (= general public = consumers)

1.3. Details of the supplier of the safety data sheet

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

Euroteam Bauchemie GmbH
An der Mühle 1
15345 Altlandsberg
Germany
Telephone: +49 (0) 33438 14790
Telefax: +49 (0) 33438 147929
E-mail: info@euroteam-bauchemie.de
Website: www.euroteam-bauchemie.de
E-mail (competent person): info@euroteam-bauchemie.de

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Acute toxicity (dermal) *(Acute Tox. 4)*	H312: Harmful in contact with skin.	
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.	

2.2. Label elements

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

Hazard pictograms:

GHS05
Corrosion

GHS09
Environment

GHS07
Exclamation mark

Signal word: Danger

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Hazard components for labelling:
2-piperazin-1-ylethylamine; Phenol, styrenated

hazard statements for health hazards	
H312	Harmful in contact with skin.
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.

Precautionary statements Response	
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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/....

Precautionary statements Storage	
P405	Store locked up.

2.3. Other hazards

Adverse environmental effects:
Results of PBT and vPvB assessment: not applicable

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** Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2 H315-H317-H411	50 – 100 %
CAS No.: 140-31-8 **EC No.:** 205-411-0 **REACH No.:** 01-2119471486-30-XXXX	**2-piperazin-1-ylethylamine** Skin Corr. 1B, Acute Tox. 3, Acute Tox. 4, Skin Sens. 1, Aquatic Chronic 3 H302-H311-H314-H317-H412	25 – 50 %

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. Call a doctor if you feel unwell.

In case of skin contact:
After contact with skin, wash immediately with plenty of water and soap. 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.

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After ingestion:
If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Provide fresh air.

4.2. Most important symptoms and effects, both acute and delayed
No information available. Treat symptomatically.

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

SECTION 5: Firefighting measures

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

Unsuitable extinguishing media:
High power water jet

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

5.3. Advice for firefighters
Special protective equipment for firefighters: Use suitable breathing apparatus.

5.4. Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose of waste according to applicable legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Personal precautions:
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. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up
For cleaning up:
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Provide adequate ventilation.

6.4. Reference to other sections
No data available

6.5. Additional information
Clear contaminated areas thoroughly.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Protective measures
Advices on safe handling:
Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

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

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7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:
Keep/Store only in original container. Provide for retaining containers, eg. floor pan without outflow. Keep container tightly closed.

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

Storage class: 8A – Combustible corrosive substances

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
2-piperazin-1-ylethylamine CAS No.: 140-31-8	21.4 mg/m³	① DNEL worker ② DNEL acute inhalative (systemic)
2-piperazin-1-ylethylamine CAS No.: 140-31-8	20 mg/kg	① DNEL worker ② DNEL acute dermal, short-term (systemic)

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

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:
Eye glasses with side protection

Skin protection:
When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Check leak tightness/impermeability prior to use. 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: >= 0,5 mm. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Breakthrough times and swelling properties of the material must be taken into consideration. Wearing time with occasional contact (splashes):/max. 15 min:Suitable gloves type: PVC (Polyvinyl chloride). Wear suitable protective clothing.

Respiratory protection:
short-term:Work in well-ventilated zones or use proper respiratory protection. ABEK-P2 long-term: Self-contained respirator (breathing apparatus) (DIN EN 133)

Other protection measures:
Keep away from food, drink and animal feedingstuffs. Take off immediately all contaminated clothing. Wash hands before breaks and after work. Avoid contact with skin. Avoid contact with eyes.

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8.2.3. Environmental exposure controls
No data available

8.3. Additional information
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/freezing point	*not determined*			
Freezing point	*not determined*			
Initial boiling point and boiling range	> 200 °C			
Decomposition temperature (°C):	*not determined*			
Flash point	> 100 °C			
Evaporation rate	*not determined*			
Ignition temperature in °C	315 °C			
Upper/lower flammability or explosive limits	2.1 – 10.5 Vol-%			
Vapour pressure	0.1 hPa	20 °C		
Vapour density	*not determined*			
Density	1.05 g/cm³	23 °C	ISO 2811, part 2	
Bulk density	*not determined*			
Water solubility (g/L)	Immiscible			
Partition coefficient: n-octanol/ water	*not determined*			
Dynamic viscosity	460 mPa*s	25 °C	ISO 3219	
Kinematic viscosity	*not determined*			

9.2. Other information
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available

10.2. Chemical stability
No known hazardous decomposition products.

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, Gases/ vapours, irritant

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
61788-44-1	Phenol, styrenated	**LD_{50} oral:** >2,000 mg/kg (Rat) **LD_{50} dermal:** >2,000 mg/kg (Rat)
140-31-8	2-piperazin-1-ylethylamine	**LD_{50} oral:** 2,110 mg/kg (Rat) **LD_{50} dermal:** 867 mg/kg (Rabbit)

Skin corrosion/irritation:
Causes burns.

Eye damage/irritation:
strongly corrosive.

Respiratory or skin sensitisation:
May cause sensitisation by skin contact.

Additional information:
Toxic by inhalation. Harmful, Corrosive, Irritant, If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
61788-44-1	Phenol, styrenated	**LC_{50}:** 14.8 mg/l 4 d (Brachydanio rerio (zebra-fish)) OECD 203 **EC_{50}:** >1 – 10 mg/l 2 d (Daphnia magna (Big water flea)) OECD 202 **EC_{50}:** 3.14 mg/l 3 d (Scenedesmus subspicatus) OECD 201 **NOEC:** 1.9 mg/l 12 d (Oryzias latipes (Ricefish)) **NOEC:** 0.2 mg/l 21 d (Daphnia magna (Big water flea))
140-31-8	2-piperazin-1-ylethylamine	**LC_{50}:** 2,190 mg/l 4 d (Pimephales promelas (fathead minnow)) OECD 203 **EC_{50}:** 58 mg/l 2 d (Daphnia magna (Big water flea)) OECD 202 **ErC_{50}:** >1,000 mg/l 3 d (Pseudokirchneriella subcapitata) OECD 201 **EC_{50}:** 494 mg/l 2 d (Selenastrum capricornutum) **LC_{50}:** 368 mg/l 4 d (Poecilia reticulata (Guppy))

Aquatic toxicity:
Toxic to fish. Toxic to aquatic organisms.

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12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
61788-44-1	Phenol, styrenated	No	Biodegradation: 4 %, Method: 310
140-31-8	2-piperazin-1-ylethylamine	No	Biodegradation: 0 %, Test durarion: 28 d, method: OECD F

12.3. Bioaccumulative potential

CAS No.	Substance name	Log K_{OC}	Bioconcentration factor (BCF)
61788-44-1	Phenol, styrenated	4	
140-31-8	2-piperazin-1-ylethylamine	-1.48	

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
61788-44-1	Phenol, styrenated	—
140-31-8	2-piperazin-1-ylethylamine	—

not applicable

12.6. Other adverse effects

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation. Send to a hazardous waste incinerator facility under observation of official regulations.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

08 02 99	wastes from MFSU of other coatings (including ceramic materials): Wastes not otherwise specified

Waste treatment options

Appropriate disposal / Package:

Dispose of waste according to applicable legislation.

13.2. Additional information

No data available

SECTION 14: Transport information

Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)	
14.1. UN-No.			
2735	2735	2735	
14.2. UN proper shipping name			
AMINES, LIQUID, CORROSIVE, N.O.S. (n-aminoethylpiperazine)	AMINES, LIQUID, CORROSIVE, N.O.S. (n-aminoethylpiperazine, Phenol, styrenated)	AMINES, LIQUID, CORROSIVE, N.O.S. (n-aminoethylpiperazine)	

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Land transport (ADR/ RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)	
14.3. Transport hazard class(es)			
8	8	8	
14.4. Packing group			
III	III	III	
14.5. Environmental hazards			
	MARINE POLLUTANT	-	
14.6. Special precautions for user			
Special provisions: **Limited quantity (LQ):** 5 L **Hazard identification number (Kemler No.):** 80 **Classification code:** - **tunnel restriction code:** E **Remark:** Excepted quantities (EQ): E1; transport category: 3	**Special provisions:** **Limited quantity (LQ):** **EmS-No.:** F-A, ; S-B **Remark:**	**Special provisions:** **Limited quantity (LQ):** **Remark:**	

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

not applicable

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

Störfallverordnung

Remark:

To follow: Störfallverordnung

Water hazard class (WGK)

WGK:

2 - deutlich wassergefährdend

Other regulations, restrictions and prohibition regulations

M004, Berufsgenossenschaftliche Regeln (BGR): 190, 192, 227 Berufsgenossenschaftliche Informationen (BGI): 868

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15.2. Chemical Safety Assessment
For this substance a chemical safety assessment has not been carried out.

15.3. Additional information
No data available

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 procedure
Acute toxicity (dermal) *(Acute Tox. 4)*	H312: Harmful in contact with skin.	
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.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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