

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 10.06.2024

Version number 1

Revision: 10.06.2024

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

- **1.1 Product identifier**
 - **Trade name:** WAKOL EP 219 Screed Binder A
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

 - **Application of the substance / the mixture** Epoxy resin
- **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
WAKOL GmbH
Bottenbacher Str. 30
D-66954 Pirmasens
info@wakol.com
+49 6331 8001 0
 - **Informing department:**
Product safety department.
msds@wakol.de
- **1.4 Emergency telephone number:**

Emergency CONTACT (24-Hour-Number):
GBK GmbH Global Regulatory Compliance +49 (0)6132-84463

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008**



health hazard

Repr. 1B H360 May damage fertility or the unborn child.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.

- **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.
 - **Hazard pictograms**



GHS07



GHS08



GHS09

- **Signal word** *Danger*

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· **Hazard-determining components of labelling:**

bis[4-(2,3-epoxypropoxy)phenyl]propane
oxirane, mono[(C12-14-alkyloxy)methyl] derivs
reaction product: bisphenol F-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)

· **Hazard statements**

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H360 May damage fertility or the unborn child.
H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P261 Avoid breathing mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

· **Additional information:**

Contains epoxy constituents. May produce an allergic reaction.
Restricted to professional users.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.
· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Adhesive

· **Dangerous components:**

CAS: 1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane	< 30%
EINECS: 216-823-5	⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
Reg.nr.: 01-2119456619-26	Specific concentration limits: Skin Irrit. 2; H315: C \geq 5 % Eye Irrit. 2; H319: C \geq 5 %	
CAS: 9003-36-5	reaction product: bisphenol F-(epichlorhydrin); epoxy resin (number $>5-<10\%$ average molecular weight ≤ 700)	
NLP: 500-006-8	⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	
Reg.nr.: 01-2119454392-40		
CAS: 68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs	>5-<10%
EINECS: 271-846-8	⚠ Repr. 1B, H360F; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	
Reg.nr.: 01-2119485289-22		

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact** Clean with water and soap. If possible, also wash with polyethylene glycol 400.
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Use only in well ventilated areas.
Hardening can lead to strong heat development.
- **Information about protection against explosions and fires:** No special measures required.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **DNELs**

- 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane**
- Oral DNEL 0.5 mg/kg/day (consumers (Long-term))
- Dermal DNEL 0.75 mg/kg/day (workers (Long-term))
- Inhalative DNEL 0.87 mg/m³ (consumers (Long-term))
4.93 mg/m³ (workers (Long-term))

- 68609-97-2 oxirane, monof(C12-14-alkyloxy)methyl] derivs**
- Oral DNEL 0.5 mg/kg/day (consumers (Long-term))
- Dermal DNEL 0.5 mg/kg/day (consumers (Long-term))
1 mg/kg/day (workers (Long-term))
- Inhalative DNEL 0.87 mg/m³ (consumers (Long-term))
3.6 mg/m³ (workers (Long-term))

- **PNECs**

- 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane**
- PNEC 0.006 mg/l (Freshwater)
0.001 mg/l (Sea water)
10 mg/l (Purification plant)
- PNEC 0.065 mg/kg (Soil)
0.034 mg/kg (Sediment (Sea water))
0.341 mg/kg (Sediment (Freshwater))

- 68609-97-2 oxirane, monof(C12-14-alkyloxy)methyl] derivs**
- PNEC 0.106 mg/l (Freshwater)
0.011 mg/l (Sea water)
10 mg/l (Purification plant)
- PNEC 1.234 mg/kg (Soil)
30.72 mg/kg (Sediment (Sea water))
307.16 mg/kg (Sediment (Freshwater))
- **Additional information:** The lists valid during the making were used as basis.

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- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
Use suitable respiratory protective device in case of insufficient ventilation.
If the occupational exposure limit is exceeded.
- **Recommended filter device for short term use:** Filter A
- **Hand protection**



Protective gloves

Preventive skin protection by use of skin-protecting agents is recommended.

- **Material of gloves**
Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.5 mm
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection**



Tightly sealed goggles

- **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Fluid
- **Colour:** Grey
- **Smell:** Amine-like
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Undetermined.
- **Boiling point or initial boiling point and boiling range** Undetermined.
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** Not determined.

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· Upper:	<i>Not determined.</i>
· Flash point:	<i>>100 °C</i>
· Auto-ignition temperature:	<i>>350 °C</i>
· Decomposition temperature:	<i>>200 °C</i>
· pH at 20 °C	<i>8</i>
· Viscosity:	
· Kinematic viscosity	<i>Not determined.</i>
· kinematic (calculated) at 40°C:	
· dynamic at 20 °C:	<i>300 mPas (ISO 2555)</i>
· Solubility	
· Water:	<i>Not miscible or difficult to mix.</i>
· Partition coefficient n-octanol/water (log value)	<i>Not determined.</i>
· Steam pressure:	<i>Not determined.</i>
· Density and/or relative density	
· Density at 20 °C	<i>0.9 g/cm³ (EN ISO 2811-1)</i>
· Relative density	<i>Not determined.</i>
· Vapour density	<i>Not determined.</i>
· 9.2 Other information	
· Appearance:	
· Form:	<i>Pasty</i>
Important information on protection of health and environment, and on safety.	
· Self-inflammability:	<i>Product is not selfigniting.</i>
· Explosive properties:	<i>Product does not present an explosion hazard.</i>
· VOC	<i>0.00 %</i>
· Solids content:	<i>0.0 % (DIN EN 827.8.2)</i>
· Change in condition	
· Evaporation rate	<i>Not determined.</i>
Information with regard to physical hazard classes	
· Explosives	<i>Void</i>
· Flammable gases	<i>Void</i>
· Aerosols	<i>Void</i>
· Oxidising gases	<i>Void</i>
· Gases under pressure	<i>Void</i>
· Flammable liquids	<i>Void</i>
· Flammable solids	<i>Void</i>
· Self-reactive substances and mixtures	<i>Void</i>
· Pyrophoric liquids	<i>Void</i>
· Pyrophoric solids	<i>Void</i>
· Self-heating substances and mixtures	<i>Void</i>
· Substances and mixtures, which emit flammable gases in contact with water	<i>Void</i>
· Oxidising liquids	<i>Void</i>
· Oxidising solids	<i>Void</i>
· Organic peroxides	<i>Void</i>
· Corrosive to metals	<i>Void</i>
· Desensitised explosives	<i>Void</i>

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SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Carbon dioxide
Carbon monoxide

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:**

1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane
Oral LD50 13,100 mg/kg (Rat)
Dermal LD50 20,000 mg/kg (Rabbit)

9003-36-5 reaction product: bisphenol F-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)
Oral LD50 >5,000 mg/kg (Rat)
Dermal LD50 >2,000 mg/kg (Rat)

68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs
Oral LD50 26,800 mg/kg (Rat)
Dermal LD50 >4,000 mg/kg (rabbit)
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**
May damage fertility or the unborn child.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**
- **Endocrine disrupting properties**

None of the ingredients is listed.

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SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

68609-97-2 oxirane, monof(C12-14-alkyloxy)methyl] derivs

LC50/96h 1,800 mg/l (Oncorhynchus mykiss)

EC50 >100 mg/l (sludge)

EC50/72h 844 mg/l (algas)

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **Remark:** Harmful to fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR, IMDG, IATA**

Void

· **14.2 UN proper shipping name**

· **ADR, IMDG, IATA**

Void

· **14.3 Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**

· **Class**

Void

· **14.4 Packing group**

· **ADR, IMDG, IATA**

Void

· **14.5 Environmental hazards:**

Not applicable.

· **14.6 Special precautions for user**

Not applicable.

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- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- **Transport/Additional information:** Not dangerous according to the above specifications.

- **ADR**
- **Remarks:** > 5 l: 9

- **IATA**
- **Remarks:** > 5 l: Class 9
- **UN "Model Regulation":** Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**
- **Regulated explosives precursors**
None of the ingredients is listed.
- **Regulated poisons**
None of the ingredients is listed.
- **Reportable explosives precursors**
None of the ingredients is listed.
- **Reportable poisons**
None of the ingredients is listed.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category E2** Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **National regulations**
- **VOC (EU)** 0.0 g/l
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H360F May damage fertility.
H411 Toxic to aquatic life with long lasting effects.
- **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)

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VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 1B: Reproductive toxicity – Category 1B

Repr. 1B: Reproductive toxicity – Category 1B

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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

· **1.1 Product identifier**

· **Trade name:** WAKOL EP 219 Screed Binder B

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

No further relevant information available.

· **Application of the substance / the mixture** Epoxy resin

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

WAKOL GmbH
Bottenbacher Str. 30
D-66954 Pirmasens
info@wakol.com
+49 6331 8001 0

· **Informing department:**

Product safety department.
msds@wakol.de

· **1.4 Emergency telephone number:**

Emergency CONTACT (24-Hour-Number):
GBK GmbH Global Regulatory Compliance +49 (0)6132-84463

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



health hazard

Repr. 2 H361d Suspected of damaging the unborn child.



corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

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· **Hazard pictograms**



GHS05 GHS07 GHS08 GHS09

· **Signal word** *Danger*

· **Hazard-determining components of labelling:**

*Amines, polyethylenepoly-, triethylenetetramine fraction
3-aminomethyl-3,5,5-trimethylcyclohexylamine
m-phenylenebis(methylamine)
salicylic acid*

· **Hazard statements**

*H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H361d Suspected of damaging the unborn child.
H411 Toxic to aquatic life with long lasting effects.*

· **Precautionary statements**

*P261 Avoid breathing vapours.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.*

· **Additional information:**

Contains epoxy constituents. May produce an allergic reaction.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Adhesive

· **Dangerous components:**

CAS: 90640-67-8	<i>Amines, polyethylenepoly-, triethylenetetramine fraction</i>	<i>>25–<35%</i>
EINECS: 292-588-2	<i>☞ Skin Corr. 1B, H314; Eye Dam. 1, H318; ☠ Acute Tox. 4,</i>	
Reg.nr.: 01-2119487919-13	<i>H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412</i>	
CAS: 2855-13-2	<i>3-aminomethyl-3,5,5-trimethylcyclohexylamine</i>	<i>>15–<25%</i>
EINECS: 220-666-8	<i>☞ Skin Corr. 1B, H314; Eye Dam. 1, H318; ☠ Acute Tox. 4,</i>	
Reg.nr.: 01-2119514687-32	<i>H302; Acute Tox. 4, H312; Skin Sens. 1A, H317; Aquatic Chronic 3, H412</i>	
	<i>Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %</i>	

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CAS: 1477-55-0	<i>m</i> -phenylenebis(methylamine)	>7.5–<15%
EINECS: 216-032-5	⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4,	
Reg.nr.: 01-2119480150-50	H302; Acute Tox. 4, H332; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	
CAS: 61788-44-1	Phenol, styrenated	>10–<15%
EINECS: 262-975-0	⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411	
Reg.nr.: 01-2119980970-27		
CAS: 68410-23-1	Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	>7.5–<15%
	⚠ Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 9046-10-0	polyoxypropylendiamine	>5–<10%
Reg.nr.: 01-2119557899-12	⚠ Skin Corr. 1C, H314; Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411	
CAS: 69-72-7	salicylic acid	>1–<5%
EINECS: 200-712-3	⚠ Repr. 2, H361d; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	
Reg.nr.: 01-2119486984-17		
CAS: 112-53-8	Lauryl alcohol	>2.5–<5%
EINECS: 203-982-0	⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411; ⚠ Eye Irrit. 2, H319	
Reg.nr.: 01-2119485976-15		
CAS: 2579-20-6	1,3-Cyclohexanedimethanamine	>2.5–<5%
EINECS: 219-941-5	⚠ Acute Tox. 4, H302; Acute Tox. 4, H312	
Reg.nr.: 01-2119543741-41		
CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	>1–<3%
EINECS: 202-013-9	⚠ Skin Corr. 1A, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	
Reg.nr.: 01-2119560597-27		
CAS: 25513-64-8	3,3,5-trimethylhexamethylene-diamine	>1–<3%
EINECS: 247-063-2	⚠ Skin Corr. 1A, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4,	
Reg.nr.: 01-2119560598-25	H302; Skin Sens. 1A, H317	
CAS: 38640-62-9	bis(isopropyl)naphthalene	>1–<3%
EINECS: 254-052-6	⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
Reg.nr.: 01-2119565150-48		
CAS: 1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	<0.5%
EINECS: 217-164-6	⚠ STOT RE 2, H373; ⚠ Eye Dam. 1, H318; ⚠ Skin Sens. 1,	
Reg.nr.: 01-2119970215-39	H317	

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information** Immediately remove any clothing soiled by the product.
- **After inhalation** Supply fresh air; consult doctor in case of complaints.

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- **After skin contact** Clean with water and soap. If possible, also wash with polyethylene glycol 400.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Use neutralising agent.
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Use only in well ventilated areas.
Hardening can lead to strong heat development.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

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· 7.3 **Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection**· 8.1 **Control parameters**· **Components with critical values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs****90640-67-8 Amines, polyethylenepoly-, triethylenetetramine fraction**

Dermal DNEL 0.57 mg/kg/day (workers (Long-term))

Inhalative DNEL 5,380 mg/m³ (workers (Short-term))1 mg/m³ (workers (Long-term))**2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

Oral DNEL 0.526 mg/human/day (consumers (Long-term))

Inhalative DNEL 0.073 mg/m³ (workers (Short-term))0.073 mg/m³ (workers (Long-term))**1477-55-0 m-phenylenebis(methylamine)**

Dermal DNEL 0.33 mg/kg/day (workers (Long-term))

Inhalative DNEL 1.2 mg/m³ (workers (Long-term))**61788-44-1 Phenol, styrenated**

Oral DNEL 7.5 mg/kg/day (consumers (Long-term))

Dermal DNEL 7.5 mg/kg/day (consumers (Long-term))

21 mg/kg/day (workers (Long-term))

Inhalative DNEL 13.1 mg/m³ (consumers (Long-term))74 mg/m³ (workers (Long-term))**69-72-7 salicylic acid**

Oral DNEL 4 mg/kg/day (consumers (Short-term))

1 mg/kg/day (consumers (Long-term))

Dermal DNEL 2.3 mg/m³ (workers (Long-term))

DNEL 1 mg/kg/day (consumers (Long-term))

Inhalative DNEL 4 mg/m³ (consumers (Long-term))5 mg/m³ (workers (Long-term))**112-53-8 Lauryl alcohol**

Oral DNEL 44.5 mg/kg/day (consumers (Long-term))

Dermal DNEL 44.5 mg/kg/day (consumers (Long-term))

89 mg/kg/day (workers (Long-term))

Inhalative DNEL 77 mg/m³ (consumers (Long-term))313 mg/m³ (workers (Long-term))

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2579-20-6 1,3-Cyclohexanedimethanamine

Dermal DNEL 25.2 mg/kg/day (workers (Short-term))

0.1 mg/kg/day (workers (Long-term))

Inhalative DNEL 0.00947 mg/m³ (workers (Long-term))**90-72-2 2,4,6-tris(dimethylaminomethyl)phenol**

Oral DNEL 0.075 mg/kg/day (consumers (Long-term))

Dermal DNEL 0.075 mg/kg/day (consumers (Short-term))

0.075 mg/kg/day (consumers (Long-term))

0.6 mg/kg/day (workers (Short-term))

0.15 mg/kg/day (workers (Long-term))

Inhalative DNEL 0.13 mg/m³ (consumers (Short-term))0.13 mg/m³ (consumers (Long-term))2.1 mg/m³ (workers (Short-term))0.53 mg/m³ (workers (Long-term))**38640-62-9 bis(isopropyl)naphthalene**

Oral DNEL 0.85 mg/kg/day (consumers (Long-term))

Dermal DNEL 0.85 mg/kg/day (consumers (Long-term))

2.38 mg/kg/day (workers (Long-term))

Inhalative DNEL 1.48 mg/m³ (consumers (Long-term))8.4 mg/m³ (workers (Long-term))**1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine**

Oral DNEL 2.5 mg/kg/day (consumers (Long-term))

Dermal DNEL 17 mg/kg/day (consumers (Short-term))

2.5 mg/kg/day (consumers (Long-term))

5 mg/kg/day (workers (Long-term))

Inhalative DNEL 8.7 mg/m³ (consumers (Long-term))35.3 mg/m³ (workers (Long-term))**PNECs****90640-67-8 Amines, polyethylenepoly-, triethylenetetramine fraction**

PNEC 0.19 mg/l (Freshwater)

0.038 mg/l (Sea water)

4.25 mg/l (Purification plant)

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

PNEC 0.06 mg/l (Freshwater)

0.006 mg/l (Sea water)

3.18 mg/l (Purification plant)

PNEC 1.121 mg/kg (Soil)

0.578 mg/kg (Sediment (Sea water))

5.784 mg/kg (Sediment (Freshwater))

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1477-55-0 m-phenylenebis(methylamine)

PNEC 0.094 mg/l (Freshwater)

0.009 mg/l (Sea water)

10 mg/l (Purification plant)

PNEC 2.44 mg/kg (Soil)

1.24 mg/kg (Sediment (Sea water))

12.4 mg/kg (Sediment (Freshwater))

61788-44-1 Phenol, styrenated

PNEC 4 µg/l (Freshwater)

0.4 µg/l (Sea water)

PNEC 36.2 mg/l (Purification plant)

PNEC 47.3 µg/kg (Soil)

PNEC 0.0248 mg/kg (Sediment (Sea water))

0.248 mg/kg (Sediment (Freshwater))

69-72-7 salicylic acid

PNEC 0.2 mg/l (Freshwater)

0.02 mg/l (Sea water)

162 mg/l (Purification plant)

PNEC 0.166 mg/kg (Soil)

0.142 mg/kg (Sediment (Sea water))

1.42 mg/kg (Sediment (Freshwater))

112-53-8 Lauryl alcohol

PNEC 0.001 mg/l (Freshwater)

0.00028 mg/l (Sea water)

PNEC 0.132 mg/kg (Soil)

0.067 mg/kg (Sediment (Sea water))

0.666 mg/kg (Sediment (Freshwater))

2579-20-6 1,3-Cyclohexanedimethanamine

PNEC 0.033 mg/l (Freshwater)

0.003 mg/l (Sea water)

10 mg/l (Purification plant)

PNEC 0.024 mg/kg (Soil)

0.022 mg/kg (Sediment (Sea water))

0.218 mg/kg (Sediment (Freshwater))

90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

PNEC 0.046 mg/l (Freshwater)

0.0046 mg/l (Sea water)

0.2 mg/l (Purification plant)

PNEC 0.025 mg/kg (Soil)

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0.0262 mg/kg (Sediment (Sea water))

0.262 mg/kg (Sediment (Freshwater))

38640-62-9 bis(isopropyl)naphthalene

PNEC <0.01 µg/l (Freshwater)

<0.01 µg/l (Sea water)

PNEC 0.15 mg/l (Purification plant)

PNEC 0.171 mg/kg (Soil)

0.085 mg/kg (Sediment (Sea water))

0.85 mg/kg (Sediment (Freshwater))

1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine

PNEC 0.062 mg/l (Freshwater)

0.0062 mg/l (Sea water)

0.62 mg/l (Water - partially release)

25 mg/l (Sewage treatment plants (STP))

PNEC 0.0085 mg/kg (Soil)

0.022 mg/kg (Sediment (Sea water))

0.22 mg/kg (Sediment (Freshwater))

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation.

If the occupational exposure limit is exceeded.

· **Recommended filter device for short term use:** Filter A

· **Hand protection**



Protective gloves

Preventive skin protection by use of skin-protecting agents is recommended.

· **Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.5 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**



Tightly sealed goggles

· **Body protection: Protective work clothing**

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Fluid

· **Colour:**

Light yellow

· **Smell:**

Amine-like

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

Undetermined.

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

>100 °C

· **Auto-ignition temperature:**

>350 °C

· **Decomposition temperature:**

>200 °C

· **pH at 20 °C**

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· **Viscosity:**

· **Kinematic viscosity**

Not determined.

· **kinematic (calculated) at 40°C:**

· **dynamic:**

Not determined.

· **Solubility**

· **Water:**

Not miscible or difficult to mix.

· **Partition coefficient n-octanol/water (log value)**

Not determined.

· **Steam pressure:**

Not determined.

· **Density and/or relative density**

· **Density at 20 °C**

1 g/cm³ (EN ISO 2811-1)

· **Relative density**

Not determined.

· **Vapour density**

Not determined.

· **9.2 Other information**

· **Appearance:**

· **Form:**

Pasty

· **Important information on protection of health and environment, and on safety.**

· **Self-inflammability:**

Product is not selfigniting.

· **Explosive properties:**

Product does not present an explosion hazard.

· **VOC**

0.00 %

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- **Change in condition**
- **Evaporation rate** Not determined.
- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Void
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
Reacts with oxidising agents.
Reacts with strong acids and alkali.
- **10.4 Conditions to avoid** Heat may cause pressure rise with explosion of tanks/drums.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Carbon dioxide
Carbon monoxide

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**
Harmful if swallowed, in contact with skin or if inhaled.
- **LD/LC50 values that are relevant for classification:**
- Oral LD50 744.217 mg/kg (Rat)
- Dermal LD50 1,772.802 mg/kg (rabbit)
- Inhalative LC50/4h 12.494 mg/l (Rat)
- 90640-67-8 Amines, polyethylenepoly-, triethylenetetramine fraction**
- Oral LD50 1,717 mg/kg (Rat)

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Dermal LD50 1,465 mg/kg (rabbit)

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Oral LD50 1,030 mg/kg (Rat)

Dermal LD50 1,100 mg/kg (Rat)

1477-55-0 m-phenylenebis(methylamine)

Oral LD50 930 mg/kg (Rat)

Dermal LD50 >3,100 mg/kg (Rat)

61788-44-1 Phenol, styrenated

Oral LD50 >2,000 mg/kg (Rat)

Dermal LD50 >7,940 mg/kg (rabbit)

Inhalative LC0/4h 4.9 mg/l (Rat)

68410-23-1 Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines

Oral LD50 >2,000 mg/kg (Rat)

9046-10-0 polyoxypropylendiamine

Oral LD50 2,885.3 mg/kg (Rat)

Dermal LD50 2,979 mg/kg (Rabbit)

69-72-7 salicylic acid

Oral LD50 891 mg/kg (Rat)

Dermal LD50 >10,000 mg/kg (Rabbit)

112-53-8 Lauryl alcohol

Oral LD50 8,000 mg/kg (Rat)

Dermal LD50 8,000–12,000 mg/kg (Rabbit)

2579-20-6 1,3-Cyclohexanedimethanamine

Oral LD50 >300–2,000 mg/kg (Rat)

Dermal LD50 1,700 mg/kg (rabbit)

90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

Oral LD50 500 mg/kg (Rat)

25513-64-8 3,3,5-trimethylhexamethylene-diamine

Oral LD50 910 mg/kg (Rat)

38640-62-9 bis(isopropyl)naphthalene

Oral LD50 4,130–4,320 mg/kg (Rat) (OECD RL 401)

Dermal LD50 >4,500 mg/kg (Rat) (OECD RL 402)

1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine

Oral LD50 2,295 mg/kg (Rat)

Dermal LD50 >2,000 mg/kg (rabbit)

· Skin corrosion/irritation

Causes severe skin burns and eye damage.

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- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**
Suspected of damaging the unborn child.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**
- **Endocrine disrupting properties**

61788-44-1 Phenol, styrenated: List II

69-72-7 salicylic acid: List III

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**

90640-67-8 Amines, polyethylenepoly-, triethylenetetramine fractionLC50/96h 330 mg/l (*Pimephales promelas*)EC50/48h 3.7 mg/l (*Scenedesmus subspicatus*)31.1 mg/l (*Daphnia magna*)**2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine**LC50/96h 110 mg/l (*Leuciscus idus*)EC10/18h 1,120 mg/l (*Pseudomonas putida*)EC50/48h 23 mg/l (*Daphnia magna*)EC50/72h 37 mg/l (*Desmodesmus subspicatus*)ErC50/72h > 50 mg/l (*Scenedesmus subspicatus*)**112-53-8 Lauryl alcohol**LC50/96h 1.01 mg/l (*Pimephales promelas*)EC50/48h 0.765 mg/l (*Daphnia magna*)EC50/72h 56.7 mg/l (*Pseudokirchneriella subcapitata*)**2579-20-6 1,3-Cyclohexanedimethanamine**LC50/96h 130 mg/l (*Leuciscus macrochirus*)EC50/48h 33.1 mg/l (*Daphnia magna*)ErC50/72h 56.7 mg/l (*Pseudokirchneriella subcapitata*)**38640-62-9 bis(isopropyl)naphthalene**LC50/96h 0.5 mg/l (*piscarius*) (OECD RL 201)EC50/48h 23 mg/l (*Daphnia magna*) (OECD RL 202)EC50/72h 37 mg/l (*Desmodesmus subspicatus*) (OECD RL 203)

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1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine

LC50 >100 mg/l (*Leuciscus macrochirus*)

EC50/48h 81 mg/l (*Daphnia magna*)

IC50/72h 8.8 mg/l (algas)

IC50 >30 mg/l (algas)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
- *Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water*
- *Do not allow product to reach ground water, water course or sewage system.*
- *Must not reach sewage water or drainage ditch undiluted or unneutralised.*
- *Danger to drinking water if even small quantities leak into the ground.*
- *Also poisonous for fish and plankton in water bodies.*
- *Toxic for aquatic organisms*

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
- *Must not be disposed together with household garbage. Do not allow product to reach sewage system.*
- *Must be specially treated adhering to official regulations.*
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA** UN2735
- **14.2 UN proper shipping name**
- **ADR** 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE, Phenol, styrenated), ENVIRONMENTALLY HAZARDOUS
- **IMDG, IATA** AMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE, Phenol, styrenated)

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· **14.3 Transport hazard class(es)**

· **ADR, IMDG**



· **Class** 8 Corrosive substances.
· **Label** 8

· **IATA**



· **Class** 8 Corrosive substances.
· **Label** 8

· **14.4 Packing group**

· **ADR, IMDG, IATA** II

· **14.5 Environmental hazards:**

· **Marine pollutant:** Symbol (fish and tree)
· **Special marking (ADR):** Symbol (fish and tree)
· **14.6 Special precautions for user** Warning: Corrosive substances.

· **Kemler Number:** 80

· **EMS Number:** F-A,S-B

· **Segregation groups** (SGG18) Alkalis

· **Stowage Category** A

· **Segregation Code** SG35 Stow "separated from" SGG1-acids

· **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)** 1L
· **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

· **Transport category** 2

· **Tunnel restriction code** E

· **IMDG**

· **Limited quantities (LQ)** 1L
· **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

· **UN "Model Regulation":** UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE, PHENOL, STYRENATED), 8, II, ENVIRONMENTALLY HAZARDOUS

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**
- **Regulated explosives precursors**
None of the ingredients is listed.
- **Regulated poisons**
None of the ingredients is listed.
- **Reportable explosives precursors**
None of the ingredients is listed.
- **Reportable poisons**
None of the ingredients is listed.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category E2** Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **National regulations**
- **VOC (EU)** 0.0 g/l
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
 - H302 Harmful if swallowed.
 - H304 May be fatal if swallowed and enters airways.
 - H312 Harmful in contact with skin.
 - H314 Causes severe skin burns and eye damage.
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H318 Causes serious eye damage.
 - H319 Causes serious eye irritation.
 - H332 Harmful if inhaled.
 - H361d Suspected of damaging the unborn child.
 - H373 May cause damage to organs through prolonged or repeated exposure.
 - H400 Very toxic to aquatic life.
 - H410 Very toxic to aquatic life with long lasting effects.
 - H411 Toxic to aquatic life with long lasting effects.
 - H412 Harmful to aquatic life with long lasting effects.
- **Abbreviations and acronyms:**
 - ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 - IMDG: International Maritime Code for Dangerous Goods
 - IATA: International Air Transport Association
 - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - ELINCS: European List of Notified Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - VOC: Volatile Organic Compounds (USA, EU)

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DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Skin Sens. 1B: Skin sensitisation – Category 1B
Repr. 2: Reproductive toxicity – Category 2
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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