

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

- **Product identifier**
- **Trade name:** STAUF ERP-270-A
- *Application of the substance / the mixture*
Epoxy resin
Priming
- **Details of the supplier of the safety data sheet**
- **Manufacturer:**
STAUF Klebstoffwerk GmbH
Oberhausener Strasse 1
57234 Wilnsdorf, Germany
Phone +49-2739-3010
Fax +49-2739-301200
- **Distributor**
STAUF USA, LLC.
11121 Hwy 70 Suite 102
Arlington, TN 38002, USA
Phone 1-901-820-0007
Fax 1-901-820-0101
STAUF Australia
Level 1, 450 St Kilda Road
Melbourne, VIC Australia 3004
Phone: +61(3)9867 3674
Fax: +61(3)9867 3675
- **Emergency telephone number:** CHEMTREC 1-800-424-9300 (USA) 1-703-527-3887 (International)

2 Composition/information on ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) Xi R36/38 Xi R43 N R51/53 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	50-100%
9003-36-5	Bisphenol F- Epoxidharz Xi R38 Xi R43 N R51/53 Skin Irrit. 2, H315; Skin Sens. 1, H317	10-25%
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs Xi R38 Xi R43 Skin Irrit. 2, H315; Skin Sens. 1, H317	10-25%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

Trade name: STAUF ERP-270-A

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3 Hazards identification

· **Classification of the substance or mixture**



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.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Irritant

R36/38: Irritating to eyes and skin.



Xi; Sensitising

R43: May cause sensitisation by skin contact.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Label elements**

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

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)
 Bisphenol F- Epoxidharz
 oxirane, mono[(C12-14-alkyloxy)methyl] derivs

· **Safety phrases:**

- 2 Keep out of the reach of children.
- 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
- 24/25 Avoid contact with skin and eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 28 After contact with skin, wash immediately with plenty of water.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 37/39 Wear suitable gloves and eye/face protection.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 57 Use appropriate container to avoid environmental contamination.
- 60 This material and its container must be disposed of as hazardous waste.
- 64 If swallowed, rinse mouth with water (only if the person is conscious).

4 First aid measures

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.
 In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

If skin irritation continues, consult a doctor.
 Immediately wash with water and soap and rinse thoroughly.
 Immediately rinse with water.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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Trade name: STAUF ERP-270-A

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- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.

5 Firefighting measures

- **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.
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Carbon monoxide (CO)
- **Protective equipment:**
Wear fully protective suit.
Do not inhale explosion gases or combustion gases.
- **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Use respiratory protective device against the effects of fumes/dust/aerosol.
Ensure adequate ventilation
Wear protective clothing.
- **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.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- **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.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store receptacle in a well ventilated area.
Store in dry conditions.
Keep container tightly sealed.

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Trade name: STAUF ERP-270-A

- **Specific end use(s)** No further relevant information available.

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8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit 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.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
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.
- **Respiratory protection:**
Not necessary if room is well-ventilated.
Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**



Protective gloves

- **Material of gloves**
Butyl rubber, BR
Nitrile rubber, NBR
Neoprene gloves
- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **General Information**
- **Appearance:**

<i>Form:</i>	Fluid
<i>Colour:</i>	Colourless
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
- **Flash point:** 143 °C
- **Flammability (solid, gaseous):** Not applicable.

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Trade name: STAUF ERP-270-A

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- **Ignition temperature:**
 - Decomposition temperature:** Not determined.
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
 - Lower:** Not determined.
 - Upper:** Not determined.
- **Vapour pressure:** Not determined.
- **Density at 20 °C:** 1.02 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic at 20 °C:** 1000 mPas
 - Kinematic:** Not determined.
- **Solvent content:**
 - Organic solvents:** 0.0 %
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
 - *on the skin:* Irritant to skin and mucous membranes.
 - *on the eye:* Irritating effect.
- **Sensitisation:** Sensitisation possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

AU

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Trade name: STAUF ERP-270-A

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12 Ecological information

· **Aquatic toxicity:**

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

EC50	11 mg/l (Selenastrum capricornutum) (72h) 1.8 mg/l (Daphnia magna Wasserfloh) (48h)
NOEC	0.3 mg/l (Daphnia magna Wasserfloh) (21 Tg)

9003-36-5 Bisphenol F- Epoxidharz

EC50	1.8 mg/l (Algen- Navicula seminulum) (72h) 1.6 mg/l (Daphnia magna Wasserfloh) (48h)
LC50/ 96h	0.55 mg/l (Fisch)
NOEC	0.3 mg/l (Daphnia magna Wasserfloh)

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

· **Behaviour in environmental systems:**

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

· **Ecotoxicological 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.

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

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation**

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

· **Uncleaned packaging:**

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

14 Transport information

· **UN-Number**

· **ADG, IMDG, IATA**

UN3082

· **UN proper shipping name**

· **ADG**

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S.

· **IMDG**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S., MARINE POLLUTANT

· **IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.

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Trade name: STAUF ERP-270-A

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· **Transport hazard class(es)**

· **ADG, IMDG, IATA**



- | | |
|--|---|
| · Class | 9 Miscellaneous dangerous substances and articles. |
| · Label | 9 |
| · Packing group | |
| · ADG, IMDG, IATA | III |
| · Environmental hazards: | |
| · Marine pollutant: | Yes |
| | Symbol (fish and tree) |
| · Special marking (ADG): | Symbol (fish and tree) |
| · Special marking (IATA): | Symbol (fish and tree) |
| · Special precautions for user | Warning: Miscellaneous dangerous substances and articles. |
| · Danger code (Kemler): | 90 |
| · EMS Number: | F-A,S-F |
| · Segregation groups | Liquid halogenated hydrocarbons |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

· **Transport/Additional information:**

· **ADG**

- | | |
|-----------------------------------|---|
| · Excepted quantities (EQ) | Code: E1 |
| | Maximum net quantity per inner packaging: 30 ml |
| | Maximum net quantity per outer packaging: 1000 ml |

· **IMDG**

- | | |
|-----------------------------------|---|
| · Limited quantities (LQ) | 5L |
| · Excepted quantities (EQ) | Code: E1 |
| | Maximum net quantity per inner packaging: 30 ml |
| | Maximum net quantity per outer packaging: 1000 ml |
| · UN "Model Regulation": | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III |

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· *Australian Inventory of Chemical Substances*

All ingredients are listed.

· *Standard for the Uniform Scheduling of Medicines and Poisons*

None of the ingredients is listed.

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.

· **Department issuing MSDS:** Technical Department

· **Contact:**

Dr. Frank Gahlmann +49-(0)2739-301165 gahlmann@stauf.de

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Safety data sheet

According to 91/155 EEC



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Version number 90

Revision: 07.12.2015

Trade name: STAUF ERP-270-A*(Contd. of page 7)*

Wolfgang Stauf, Phone +1-901-820-0007, Email wolfgang.stauf@staufusa.com

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

AU

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

· **Product identifier**

- **Trade name:** STAUF ERP-270-B
- *Application of the substance / the mixture*
Priming
Sealant
Epoxy resin

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

· **Manufacturer:**

STAUF Klebstoffwerk GmbH
Oberhausener Strasse 1
57234 Wilnsdorf, Germany
Phone +49-2739-3010
Fax +49-2739-301200

· **Distributor**

STAUF USA, LLC.
11121 Hwy 70 Suite 102
Arlington, TN 38002, USA
Phone 1-901-820-0007
Fax 1-901-820-0101
STAUF Australia
Level 1, 450 St Kilda Road
Melbourne, VIC Australia 3004
Phone: +61(3)9867 3674
Fax: +61(3)9867 3675

- **Emergency telephone number:** CHEMTREC 1-800-424-9300 (USA) 1-703-527-3887 (International)

2 Composition/information on ingredients

· **Chemical characterisation: Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

100-51-6	Benzyl alcohol Xn R20/22 Acute Tox. 4, H302; Acute Tox. 4, H332	25-50%
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine C R34 Xn R21/22 Xi R43 R52/53 Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	10-25%
1477-55-0	m-phenylenebis(methylamine) C R34 Xn R22 Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317	10-25%

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Trade name: STAUF ERP-270-B

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90-72-2	2,4,6-tris(dimethylaminomethyl)phenol Xn R22 Xi R36/38 Skin Corr. 1A, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	2.5-10%
109-55-7	3-aminopropyldimethylamine C R34 Xn R22 Xi R43 R10 Flam. Liq. 3, H226 Skin Corr. 1B, H314 Acute Tox. 4, H302; Skin Sens. 1, H317	2.5-10%

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

3 Hazards identification

· **Classification of the substance or mixture**



corrosion

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



Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

Eye Irrit. 2 H319 Causes serious eye irritation.

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

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



C; Corrosive

R34: Causes burns.



Xn; Harmful

R20/22: Harmful by inhalation and if swallowed.



Xi; Sensitising

R43: May cause sensitisation by skin contact.

· **Label elements**

· *Hazard-determining components of labelling:*

Benzyl alcohol

3-aminomethyl-3,5,5-trimethylcyclohexylamine

m-phenylenebis(methylamine)

2,4,6-tris(dimethylaminomethyl)phenol

· **Safety phrases:**

1/2 Keep locked up and out of the reach of children.

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Trade name: STAUF ERP-270-B

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- 9 Keep container in a well-ventilated place.
- 13 Keep away from food, drink and animal feedingstuffs.
- 20 When using do not eat or drink.
- 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
- 25 Avoid contact with eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 52 Not recommended for interior use on large surface areas.

4 First aid measures

- **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:**

Call a doctor immediately.

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

- **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.

Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

5 Firefighting measures

- **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.

- **Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

- **Protective equipment:**

Wear fully protective suit.

Do not inhale explosion gases or combustion gases.

Mount respiratory protective device.

AU

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Trade name: STAUF ERP-270-B

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6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Keep away from ignition sources.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Wear protective clothing.

- **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.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.

- **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

- **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.

7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

- **Information about fire - and explosion protection:** No special measures required.

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:**

Protect from frost.
Keep container tightly sealed.

- **Storage class:** 8

- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

1477-55-0 m-phenylenebis(methylamine)

NES (Australia)	Peak limitation: 0.1 mg/m ³ Sk
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- **DNELs**

100-51-6 Benzyl alcohol


Dermal	DNEL	9.5 mg/kg (worker)
Inhalative	DNEL	90 mg/cm ³ (worker)

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

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Trade name: STAUF ERP-270-B

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- **Personal protective equipment:**
 - **General protective and hygienic measures:**
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.
 - **Respiratory protection:**
Not necessary if room is well-ventilated.
Use suitable respiratory protective device in case of insufficient ventilation.
 - **Protection of hands:** Not required.
 - *Material of gloves*
Butyl rubber, BR
Nitrile rubber, NBR
 - *Penetration time of glove material*
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
appr. 15 min
 - **Eye protection:**
- 

Tightly sealed goggles
- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **General Information**
- **Appearance:**
 - Form:* Fluid
 - Colour:* Dark yellow
- **Odour:** Amine-like
- **Odour threshold:** Not determined.
- **pH-value at 20 °C:** 11.8 (in wässriger Lösung)
- **Change in condition**
 - Melting point/Melting range:** Undetermined.
 - Boiling point/Boiling range:** 132 °C
- **Flash point:** 100 °C
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 305 °C
- **Decomposition temperature:** Not determined.
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
 - Lower:** 1.3 Vol %
 - Upper:** 13.0 Vol %
- **Vapour pressure at 20 °C:** 6 hPa
- **Density at 20 °C:** 1 g/cm³

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Trade name: STAUF ERP-270-B

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- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water:** Not determined.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic at 20 °C:** 500 mPas
 - Kinematic:** Not determined.
- **Solvent content:**
 - Organic solvents:** 0.0 %
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Irritant gases/vapours

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
 - *on the skin:* Caustic effect on skin and mucous membranes.
 - *on the eye:* Strong caustic effect.
- **Sensitisation:** Sensitisation possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Harmful
Corrosive
Irritant
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **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.

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Danger to drinking water if even small quantities leak into the ground. Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- **UN-Number**
- **ADG, IMDG, IATA** UN2735
- **UN proper shipping name**
- **ADG** 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (nonylphenol, N-AMINOETHYLPIPERAZINE)
- **IMDG, IATA** AMINES, LIQUID, CORROSIVE, N.O.S. (nonylphenol, N-AMINOETHYLPIPERAZINE)
- **Transport hazard class(es)**
- **ADG, IMDG, IATA**



- **Class** 8 Corrosive substances.
- **Label** 8
- **Packing group**
- **ADG, IMDG, IATA** III
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Warning: Corrosive substances.
- **Danger code (Kemler):** 80
- **EMS Number:** F-A,S-B
- **Segregation groups** Alkalis
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **Transport/Additional information:**

- **ADG**
- **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

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Safety data sheet

According to 91/155 EEC



Printing date 07.12.2015

Version number 120

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· **IMDG**

- Limited quantities (LQ)
- Excepted quantities (EQ)

5L

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

UN2735, AMINES, LIQUID, CORROSIVE, N.O.S.

(nonylphenol, N-AMINOETHYLPIPERAZINE), 8, III

· **UN "Model Regulation":**

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

- *Australian Inventory of Chemical Substances*

All ingredients are listed.

- *Standard for the Uniform Scheduling of Medicines and Poisons*

None of the ingredients is listed.

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.

- **Department issuing MSDS:** Technical Department

· **Contact:**

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· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1