

SECTION 01: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:**
STAUF VEP 195 Component A
- Article number:
116120
- Product Group
2 comp. epoxy resin primer
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- Product category
PC1 Adhesives, sealants
- Application of the substance / the preparation
Priming
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
STAUF Klebstoffwerk GmbH
Oberhausener Strasse 1
57234 Wilnsdorf, Germany
+49-(0)2739-301-0
+49-(0)2739-301-200
- **1.4 Further information obtainable from:**
quality management
QS@stauf.de
- **1.5 Emergency telephone number:**
CARECHEM24- EU, +44 1235 239670

SECTION 02: Hazards identification

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



GHS07

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.



GHS09

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

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



GHS07 GHS09

- Signal word
Warning
- Hazard-determining components of labelling:
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700) / 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane / bisphenol F epoxy resins
- Hazard statements
H315 Causes skin irritation.

(Contd. on page 2)

PRODUCT : STAUF VEP 195 Component A

- H319 Causes serious eye irritation. (Contd. of page 1)
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
EUH205 Contains epoxy constituents. May produce an allergic reaction.
- Precautionary statements
 - P101 If medical advice is needed, have product container or label at hand.
 - P102 Keep out of reach of children.
 - P103 Read label before use.
 - P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 - 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.
 - P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
 - P337+P313 If eye irritation persists: Get medical advice/attention.
 - P405 Store locked up.
 - P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.
 - **2.3 Other hazards**
 - **Results of PBT and vPvB assessment**
 - PBT:
Not applicable.
 - vPvB:
Not applicable.

SECTION 03: Composition/information on ingredients• **3.2 Mixtures**• **Description:**

Mixture of substances listed below with nonhazardous additions.

• **Dangerous components:**

CAS Number		%
25068-38-6	<i>reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)</i> <i>EC number: 500-033-5</i> ⚠ <i>Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1 - H317; ⚠ Aquatic Chronic 2 - H411</i>	50,00- 75,00
17557-23-2	<i>1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane</i> <i>EC number: 241-536-7</i> ⚠ <i>Skin Irrit. 2 - H315, Skin Sens. 1 - H317</i>	25,00- 50,00
9003-36-5	<i>bisphenol F epoxy resins</i> ⚠ <i>Skin Irrit. 2 - H315, Skin Sens. 1 - H317; ⚠ Aquatic Chronic 2 - H411</i>	10,00- 25,00

• **Additional information:**

For the wording of the listed risk phrases refer to section 16.

SECTION 04: First aid measures• **4.1 Description of 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:**

Immediately wash with water and soap and rinse thoroughly.

(Contd. on page 3)

PRODUCT : STAUF VEP 195 Component A*(Contd. of page 2)*

- If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
Protect unharmed eye.
- **After swallowing:**
Do not induce vomiting; call for medical help immediately.
Rinse out mouth with water.
- **Information for doctor:**
- **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**
Symptomatic treatment (decontamination, vital functions)

SECTION 05: Firefighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:**
Water with full jet
- **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.
Do not inhale explosion gases or combustion gases.

SECTION 06: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Pick up mechanically.
Dispose of the material collected according to regulations.
- **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 07: Handling and storage

- **Handling:**
- **7.1 Precautions for safe handling**
Use only in well ventilated areas.
Do not inhale fumes.
Avoid contact with eyes, skin and clothes.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
No special requirements.
- **Information about storage in one common storage facility:**

(Contd. on page 4)

PRODUCT : STAUF VEP 195 Component A

(Contd. of page 3)

- Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
 - **7.3 Specific end use(s)**
No further relevant information available.

SECTION 08: Exposure controls/personal protection

- **Ingredients with limit values that require monitoring at the workplace**
- DNELs
25068-38-6 *reaction product: bisphenol-A-(epichlorhydrin)*
epoxy resin (number average molecular weight <=
700)
Dermal, DNEL: 8,3 mg/kg (human being)
Inhalative, DNEL: 12,3 mg/m³ (human being)
- **Additional information:**
The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Avoid contact with the eyes and skin.
Wash hands before breaks and at the end of work, use skin care products.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
- **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
Fluorocarbon rubber (Viton)
Butyl rubber, BR
Chloroprene rubber, CR
- 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 protection: Tightly sealed and solvent resistant goggles**
- **Body protection: Protective work clothing**

SECTION 09: Physical and chemical properties**9.1 Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Fluid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Characteristic
pH-value:	Not determined.

Change in condition

Initial boiling point and boiling range:	> 200 °C
Flash point:	> 100 °C
Flammability (solid, gas):	Not applicable.
Ignition temperature:	
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Not determined.
Explosive properties:	Not determined.

(Contd. on page 5)

PRODUCT : STAUF VEP 195 Component A

(Contd. of page 4)

Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	at 50 °C 5,000 hPa
Density:	1,1000 - 1,1500 g/cm ³
Solubility in / Miscibility with water:	Insoluble.
Viscosity:	
Dynamic:	at 25 °C 500 - 700 mPa.s
Solvent content:	
VOC (EC)	0,00 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **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 amines.
Reacts with acids.
- **10.4 Conditions to avoid**
Protect from heat.
- **10.5 Incompatible materials:**
Oxidizing agents, strong acids
Amines
- **10.6 Hazardous decomposition products:**
Does not decompose when used like intended.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
- **LD/LC50 values relevant for classification:**
25068-38-6 *reaction product: bisphenol-A-(epichlorhydrin)*
epoxy resin (number average molecular weight <= 700)
Oral, LD50: >2000 mg/kg (rat)
Dermal, LD50: >2000 mg/kg (rat)
9003-36-5 *bisphenol F epoxy resins*
Oral, LD50: > 5000 mg/kg (rat)
Dermal, LD50: > 2000 mg/kg (rat)
- **Primary irritant effect:**
- Skin corrosion/irritation
Irritant to skin and mucous membranes.
- Serious eye damage/irritation
Irritating effect.
- **Respiratory or skin 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

PRODUCT : STAUF VEP 195 Component A

(Contd. of page 5)

SECTION 12: Ecological information

- **12.1 Toxicity**

- Aquatic toxicity:

25068-38-6

reaction product: bisphenol-A-(epichlorhydrin)

epoxy resin (number average molecular weight <= 700)

EC50 48h (static): 1,7 mg/l (daphnie)

LC50/ 96h (static): 1,5 mg/l (fish)

EC50/72h (static): 9,4 mg/l

NOEL/ 72h: 540 mg/l (rat)

9003-36-5

bisphenol F epoxy resins

EC50 48h: 1,6 mg/l (daphnie)

LC50/ 96h: 0,55 mg/l (fish)

- **12.2 Persistence and degradability**

Not easily biodegradable

- **Behaviour in environmental systems:**

- **12.3 Bioaccumulative potential**

No further relevant information available.

- **12.4 Mobility in soil**

No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:**

Toxic for fish

- **Additional ecological information:**

- **General notes:**

Toxic for aquatic organisms

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.

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

- **PBT:**

Not applicable.

- **vPvB:**

Not applicable.

- **12.6 Other adverse effects**

No further relevant information available.

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.

- **European waste catalogue**

08

WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS

08 01

wastes from MFSU and removal of paint and varnish

08 01 11

waste paint and varnish containing organic solvents or other hazardous substances

- **Uncleaned packaging:**

- **Recommendation:**

Disposal must be made according to official regulations.

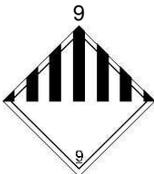
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

PRODUCT : STAUF VEP 195 Component A

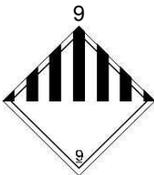
(Contd. of page 6)

SECTION 14: Transport information

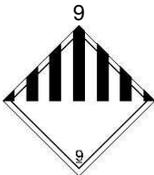
- **14.1 UN-Number**
ADR UN3082
IMDG UN3082
IATA UN3082
- **14.2 UN proper shipping name**
ADR 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700))
IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700))
IATA 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)**
ADR
Class 9 (M6) Miscellaneous dangerous substances and articles.
Label



- IMDG**
Class 9 Miscellaneous dangerous substances and articles.
Label



- IATA**
Class 9 Miscellaneous dangerous substances and articles.
Label



- **14.4 Packing group**
ADR III
IMDG III
IATA III
- **14.5 Environmental hazards:**
Marine pollutant: Yes
- **14.6 Special precautions for user**
Warning: Miscellaneous dangerous substances and articles.
Danger code (Kemler): 90
EMS Number: F-A,S-F
- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
Not applicable.
- **Transport/Additional information:**

(Contd. on page 8)

PRODUCT : STAUF VEP 195 Component A

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Excepted quantities (EQ):	E1
Limited quantities (LQ)	5L
Transport category	3
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	E1

- **UN "Model Regulation":**

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700)), 9, III

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **REGULATION (EC) No 1907/2006 ANNEX XVII**
Conditions of restriction: 3
- **National regulations:**
- **Waterhazard class:**
Water hazard class 2 (Self-assessment): hazardous for water.
- **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.
 - H411 Toxic to aquatic life with long lasting effects.
- **Department issuing MSDS:**
quality management
- **Abbreviations and acronyms:**
 - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 - IMDG: International Maritime Code for Dangerous Goods
 - IATA: International Air Transport Association
 - ICAO: International Civil Aviation Organisation
 - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - VOC: Volatile Organic Compounds (USA, EU)
 - DNEL: Derived No-Effect Level (REACH)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
- *** Data compared to the previous version altered.**

SECTION 01: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:**
STAUF VEP 195 Component B
- Product Group
2 comp. epoxy resin primer
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- Product category
PC1 Adhesives, sealants
- Application of the substance / the preparation
Priming
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
STAUF Klebstoffwerk GmbH
Oberhausener Strasse 1
57234 Wilnsdorf, Germany
+49-(0)2739-301-0
+49-(0)2739-301-200
- **1.4 Further information obtainable from:**
quality management
QS@stauf.de
- **1.5 Emergency telephone number:**
CARECHEM24- EU, +44 1235 239670

SECTION 02: Hazards identification

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



GHS05

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



GHS07

Acute Tox. 4 - H302 Harmful if swallowed.

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

Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

- **2.2 Label elements**

- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms



GHS05 GHS07

- Signal word
Danger

- Hazard-determining components of labelling:
m-phenylenebis(methylamine) / 3-aminomethyl-3,5,5-trimethylcyclohexylamine / Phenol, styrenized / Polypropylene glycol
- Hazard statements
H314 Causes severe skin burns and eye damage.

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Safety data sheet

according to 1907/2006/EC, Article 31



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- H302 Harmful if swallowed.
 H317 May cause an allergic skin reaction.
 H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements
 - P101 If medical advice is needed, have product container or label at hand.
 - P102 Keep out of reach of children.
 - P103 Read label before use.
 - P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 - 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.
 - P405 Store locked up.
 - P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.
 - **2.3 Other hazards**
 - **Results of PBT and vPvB assessment**
 - PBT:
 - Not applicable.
 - vPvB:
 - Not applicable.

SECTION 03: Composition/information on ingredients

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

- **Dangerous components:**

CAS Number		%
1477-55-0	<i>m-phenylenebis(methylamine)</i> EC number: 216-032-5 ⚠ Skin Corr. 1B - H314; ⚠ Acute Tox. 4 - H302, Acute Tox. 4 - H332; Aquatic Chronic 3 - H412	25,00- 50,00
2855-13-2	<i>3-aminomethyl-3,5,5-trimethylcyclohexylamine</i> EC number: 220-666-8 ⚠ Skin Corr. 1B - H314, Eye Dam. 1 - H318; ⚠ Acute Tox. 4 - H302, Acute Tox. 4 - H312, Skin Sens. 1 - H317; Aquatic Chronic 3 - H412	10,00- 25,00
929-06-6	<i>2-(2-aminoethoxy)ethanol</i> EC number: 213-195-4	10,00- 25,00
61788-44-1	<i>Phenol, styrenized</i> ⚠ Skin Irrit. 2 - H315, Skin Sens. 1 - H317; ⚠ Aquatic Chronic 2 - H411	3,00- 10,00
25322-69-4	<i>Polypropylene glycol</i> ⚠ Acute Tox. 4 - H302	3,00- 10,00
90-72-2	<i>2,4,6-tris(dimethylaminomethyl)phenol</i> EC number: 202-013-9 ⚠ Acute Tox. 4 - H302, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319	3,00- 5

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

PRODUCT : STAUF VEP 195 Component B

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SECTION 04: First aid measures

- **4.1 Description of 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:**
Immediately wash with water and soap and rinse thoroughly.
Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
Protect unharmed eye.
- **After swallowing:**
Do not induce vomiting; call for medical help immediately.
Rinse out mouth with water.
- **Information for doctor:**
- **4.2 Most important symptoms and effects, both acute and delayed**
Irritation
Erythema
Allergic reactions
- **4.3 Indication of any immediate medical attention and special treatment needed**
Symptomatic treatment (decontamination, vital functions)

SECTION 05: Firefighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:**
Water with full jet
- **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**
Do not inhale explosion gases or combustion gases.
- **Protective equipment:**
Wear self-contained respiratory protective device.
- **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 06: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective clothing.
- **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 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.
- **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.

PRODUCT : STAUF VEP 195 Component B

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SECTION 07: Handling and storage

- **Handling:**
- **7.1 Precautions for safe handling**
Use only in well ventilated areas.
Do not inhale fumes.
Avoid contact with eyes, skin and clothes.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
No special requirements.
- **Information about storage in one common storage facility:**
Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store receptacle in a well ventilated area.
- **7.3 Specific end use(s)**
No further relevant information available.

SECTION 08: Exposure controls/personal protection

- **Ingredients with limit values that require monitoring at the workplace**
- **Additional information:**
The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Avoid contact with the eyes, skin and clothes.
Wash hands before breaks and at the end of work, use skin care products.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
- **Respiratory protection: Not necessary if room is well-ventilated.**
- **Protection of hands: Protective gloves**
- Material of gloves
Chloroprene rubber, CR
Fluorocarbon rubber (Viton)
Butyl rubber, BR
Nitrile rubber, NBR
- 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 protection: Tightly sealed and solvent resistant goggles**
- **Body protection: Protective work clothing**

SECTION 09: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Liquid
Colour:	Light yellow
Odour:	Amine-like
Odour threshold:	Characteristic
pH-value:	Not determined.

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Safety data sheet

according to 1907/2006/EC, Article 31

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Change in condition	
Initial boiling point and boiling range:	> 200 °C
Flash point:	> 110 °C
Flammability (solid, gas):	Not applicable.
Ignition temperature:	
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Not determined.
Explosive properties:	Not determined.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	at 50 °C 5,0000 hPa
Density:	1,0500 g/cm3
Solubility in / Miscibility with water:	
	Not determined.
Viscosity:	
Dynamic:	at 25 °C 300 mPa.s
Solvent content:	
VOC (EC)	0,00 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **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:**
Does not decompose when used like intended.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
No further relevant information available.
- **LD/LC50 values relevant for classification:**
 - 1477-55-0** *m-phenylenebis(methylamine)*
Oral, LD50: 1040 mg/kg (rat)
Inhalative, LC50/4h: 2,4 mg/l (rat)
 - 929-06-6** *2-(2-aminoethoxy)ethanol*
Oral, LD50: 5660 mg/kg (rat)
Dermal, LD50: 1190 mg/kg (Rabbit)
 - 61788-44-1** *Phenol, styrenized*
Oral, LD50: 3700 mg/kg (rat)
Dermal, LD50: 5010 mg/kg (rat)
Inhalative, LC50/4h: 4,9 mg/l (rat)
 - 25322-69-4** *Polypropylene glycol*
Oral, LD50: 1000- <2000 mg/kg (rat)
Dermal, LD50: >2000 mg/kg (Rabbit)
 - 90-72-2** *2,4,6-tris(dimethylaminomethyl)phenol*

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- Oral, LD50: 1200 mg/kg (rat)
Dermal, LD50: 1280 mg/kg (rat)
- **Primary irritant effect:**
 - Skin corrosion/irritation
Caustic effect on skin and mucous membranes.
 - Serious eye damage/irritation
Strong caustic effect.
 - **Respiratory or skin 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.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
 - 2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine**
EL50 (48h) (static): 23 mg/l (daphnie)
LC50/ 96h (static): 110 mg/l (fish)
EC50/72h (static): 37 mg/l
 - 25322-69-4 Polypropylene glycol**
EL50 (48h): > 100 mg/l (daphnie)
LC50/ 96h: > 100 mg/l (fish)
EC0: > 100 mg/l
- **12.2 Persistence and degradability**
No further relevant information available.
- **Behaviour in environmental systems:**
- **12.3 Bioaccumulative potential**
No further relevant information available.
- **12.4 Mobility in soil**
No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:**
Harmful to fish
- **Additional ecological information:**
- **General notes:**
Harmful to aquatic organisms
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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:**
Not applicable.
- **vPvB:**
Not applicable.
- **12.6 Other adverse effects**
No further relevant information available.

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.
- **European waste catalogue**

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WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS

08 01

wastes from MFSU and removal of paint and varnish

08 01 11

waste paint and varnish containing organic solvents or other hazardous substances

- **Uncleaned packaging:**
- **Recommendation:**
Disposal must be made according to official regulations.

SECTION 14: Transport information• **14.1 UN-Number****ADR** UN2735**IMDG** UN2735**IATA** UN2735• **14.2 UN proper shipping name****ADR** 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS(METHYLAMINE), ISOPHORONEDIAMINE)**IMDG** AMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS(METHYLAMINE), ISOPHORONEDIAMINE)**IATA** AMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS(METHYLAMINE), ISOPHORONEDIAMINE)• **14.3 Transport hazard class(es)****ADR**
Class 8 (C7) Corrosive substances.**Label****IMDG****Class** 8 Corrosive substances.**Label****IATA****Class** 8 Corrosive substances.**Label**• **14.4 Packing group****ADR** II**IMDG** II**IATA** II*(Contd. on page 8)*

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- **14.5 Environmental hazards:**
Not applicable.
- **14.6 Special precautions for user**
Warning: Corrosive substances.
Danger code (Kemler): 80
EMS Number: F-A,S-B
- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
Not applicable.
- **Transport/Additional information:**

<i>Excepted quantities (EQ):</i>	E2
<i>Limited quantities (LQ)</i>	1L
<i>Transport category</i>	2
<i>Tunnel restriction code</i>	E
IMDG	
<i>Limited quantities (LQ)</i>	1L
<i>Excepted quantities (EQ)</i>	E2
- **UN "Model Regulation":**
UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS(METHYLAMINE)
, ISOPHORONEDIAMINE), 8, II

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **REGULATION (EC) No 1907/2006 ANNEX XVII**
Conditions of restriction: 3
- **National regulations:**
- **Waterhazard class:**
Water hazard class 2 (Self-assessment): hazardous for water.
- **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.
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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

- **Department issuing MSDS:**
quality management
- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

- *** Data compared to the previous version altered.**