

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 05.10.2016

Version number 4

Revision: 05.10.2016

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

*** 1.1 Product identifier**

* Trade name **EPOXY FAS 100, KOMP. B**

* Article number: 0916

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

No further relevant information available.

*** Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

* **Product category** PC9a Coatings and paints, thinners, paint removers

*** Process category**

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC10 Roller application or brushing

*** Environmental release category**

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC8c Widespread use leading to inclusion into/onto article (indoor)

ERC11a Widespread use of articles with low release (indoor)

* **Application of the substance / the mixture** Coating

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

*** Manufacturer/Supplier:**

Remmers Baustofftechnik GmbH

Postfach 1255

D-49624 Lönigen / Germany

Tel.: +49(0)5432/83-0

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Remmers (UK) Limited

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West Sussex RH10 9NN

fon +44 (0) 1293 594 010

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*** Informing department:**

Product Safety department: Tel.: Steve Dunn Tel.: +44 (0) 1293 594 010

E-Mail: sales@remmers.co.uk

*** 1.4 Emergency telephone number:**

during working hours:

U.K.: Tel.: +44 (0) 1293 594 010

sales@remmers.co.uk

Head Office Germany: Tel.: +49 (0)5432 83 187

info@remmers.de

after working hours: Tel.: +49 (0)171 21 34 091

24h-Transport Emergency Contact Phone Number:

within USA and Canada: 1-800-424-9300

outside USA and Canada: 001-703-527-3887

SECTION 2: Hazards identification

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

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

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

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

Eye Dam. 1 H318 Causes serious eye damage.

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Skin Sens. 1 H317 May cause an allergic skin reaction.
 Repr. 2 H361f Suspected of damaging fertility.
 Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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

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

*** Hazard pictograms**

GHS05 GHS07 GHS08 GHS09

*** Signal word** Danger*** Hazard-determining components of labelling:**

Benzyl alcohol
 fatty acid, tall-oil, reaction products with triethylenetetramine
 m-phenylenebis(methylamine)
 3-aminomethyl-3,5,5-trimethylcyclohexylamine

*** Hazard statements**

H302+H332 Harmful if swallowed or if inhaled.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H361f Suspected of damaging fertility.
 H411 Toxic 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.
 P273 Avoid release to the environment.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 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 3: Composition/information on ingredients

*** 3.2 Chemical characterisation: Mixtures*** **Description:** Epoxy resin hardener, formulation based on aliphatic polyamines*** Dangerous components:**

CAS: 100-51-6	Benzyl alcohol	20-40%
EINECS: 202-859-9	Acute Tox. 4, H302; Acute Tox. 4, H332	
Index number: 603-057-00-5		
Reg.nr.: 01-2119492630-38-XXXX		

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	fatty acid, tall-oil, reaction products with triethylenetetramine	10-20%
	Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H312; Skin Sens. 1, H317	
CAS: 1477-55-0	m-phenylenebis(methylamine)	10-20%
EINECS: 216-032-5	Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
Reg.nr.: 01-2119480150-50-XXXX		
CAS: 2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	5-10%
EINECS: 220-666-8	Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
Index number: 612-067-00-9		
Reg.nr.: 01-2119514687-32-XXXX		
CAS: 98-54-4	4-tert-butylphenol	2.5-5%
EINECS: 202-679-0	Repr. 2, H361f; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H335	
Reg.nr.: 01-2119489419-21-XXXX		
CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	2.5-5%
EINECS: 202-013-9	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	
Index number: 603-069-00-0		
Reg.nr.: 01-2119560597-27-XXXX		
CAS: 109-55-7	3-aminopropyldimethylamine	2.5-5%
EINECS: 203-680-9	Flam. Liq. 3, H226; Acute Tox. 3, H311; Acute Tox. 3, H331; Skin Corr. 1C, H314; Acute Tox. 4, H302; Skin Sens. 1, H317	
Index number: 612-061-00-6		
CAS: 80-05-7	bisphenol A	2.5-5%
EINECS: 201-245-8	Repr. 2, H361f; Eye Dam. 1, H318; Skin Sens. 1, H317; STOT SE 3, H335	
Index number: 604-030-00-0		
CAS: 25620-58-0	trimethylhexane-1,6-diamine	1-2.5%
EINECS: 247-134-8	Skin Corr. 1B, H314; Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	≤1.0%
EINECS: 217-164-6	Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, 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.

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

* After inhalation

Take affected persons into the open air and position comfortably

In case of respiratory tract or mucous membrane irritation (e.g. tussive irritation), if you feel unwell or prolonged exposure, seek medical attention.

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

* After skin contact

If skin irritation continues, consult a doctor.

Wash immediately with water and soap and rinse thoroughly.

* After eye contact

Rinse opened eye for several minutes under running water. Then consult doctor.

* After swallowing

Call a doctor immediately.

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

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

No further relevant information available.

In case of prolonged/repeated exposure or in high concentrations:

Coughing

Dazed

Respiratory distressn (dyspnoea)

Gastro-intestinal symptoms

nausea

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

No further relevant information available.

symptomatic treatment

SECTION 5: Firefighting measures*** 5.1 Extinguishing media***** Suitable extinguishing agents** Use fire fighting measures that suit the environment.*** 5.2 Special hazards arising from the substance or mixture**

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

May be released in case of fire

Carbon monoxide (CO)

Carbon dioxide

carbon monoxides

Phenol

aromatic hydrocarbons

further harmful conflagration gases and fumes

*** 5.3 Advice for firefighters***** Protective equipment:**

Wear self-contained breathing apparatus.

Wear full protective suit.

Put on breathing apparatus.

*** Additional information**

Cool endangered containers with water spray jet.

Collect contaminated fire fighting water separately. It must not enter drains.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures*** 6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Put on breathing apparatus.

Wear protective equipment. Keep unprotected persons away.

*** 6.2 Environmental precautions:**

Do not allow to enter the ground/soil.

Do not allow product to reach sewage system or water bodies.

Inform responsible authorities in case product reaches bodies of water 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).

Use neutralising agent.

Dispose of 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 information on disposal.

SECTION 7: Handling and storage*** 7.1 Precautions for safe handling**

Use only in well ventilated areas.

Ensure good ventilation/exhaust in workplaces.

Avoid the formation of aerosols.

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* **Information about protection against explosions and fires:**

No special requirements.
Keep breathing equipment ready.

* **7.2 Conditions for safe storage, including any incompatibilities*** **Storage*** **Requirements to be met by storerooms and containers:**

Store only in unopened original containers.
Prevent any penetration into the ground.

* **Information on storage in a common storage facility:**

Store away from oxidising agents.
Store away from food.

* **Further information about storage conditions:**

Store container in a well ventilated position.
Protect from frost.
Keep container tightly closed.

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

SECTION 8: Exposure controls/personal protection

* **Additional information about design of technical systems:** No further data; see item 7.* **8.1 Control parameters*** **Components with limit values that require monitoring at the workplace:**

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

* **Additional information:** The lists that were valid during compilation were used as a basis.* **8.2 Exposure controls*** **Personal protective equipment*** **General protective and hygienic measures**

Do not eat, drink or smoke while working.
Use skin protection cream for preventive skin protection.
Keep away from food, beverages and animal feed.
Immediately remove soiled, saturated clothing.
Wash hands before pauses and after work.
Avoid contact with eyes and skin.

* **Respiratory equipment:**

Filter A/P2.

Only use ambient air independent respiratory equipment in pits, shafts and silos!

In case of brief exposure or low pollution load, use respiratory protection equipment with filter. In case of intensive or longer exposure, use self-contained respiratory protection equipment.

* **Protection of hands:**

Long cuffed gloves
Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

* **Material of gloves**

Nitrile rubber, NBR

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**

Break through time: max. 240 min (DIN EN 374).

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 safety glasses.* **Body protection:** Protective work clothing.

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SECTION 9: Physical and chemical properties

* 9.1 Information on basic physical and chemical properties

* General Information

* Appearance:

Form: Fluid
Colour: Clear

* Odour: Amine-like

* Odour threshold: Not determined.

* pH-value: Not determined.

* Change in condition

Melting point/Melting range: Not determined
Boiling point/Boiling range: 205 °C

* Flash point: > 100 °C (Setaflash)

* Inflammability (solid, gaseous) Not applicable.

* Ignition temperature: not applicable

* Decomposition temperature: Not determined.

* Self-inflammability: Product is not self-igniting.

* Danger of explosion: Product is not explosive.

* Explosive Limits:

Lower: Not determined.
Upper: Not determined.

* Vapour pressure: Not determined.

* Density at 20 °C 0.97 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

* Distribution coefficient (n-octanol/water): Not determined.

* Viscosity:

dynamic at 20 °C: 750 mPas
kinematic: Not determined.

* Solvent separation test < 3 %

* 9.2 Other information No further relevant information available.

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 handled and stored 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:

None if used properly.

None if stored properly.

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* SECTION 11: Toxicological information

* 11.1 Information on toxicological effects

* Acute toxicity:

Harmful if swallowed or if inhaled.

* LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 1966 mg/kg (rat)

Dermal LD50 2155 mg/kg

Inhalative LC50/4 h 10.9 mg/l

CAS: 100-51-6 Benzyl alcohol

Oral LD50 1230 mg/kg (rat)

Dermal LD50 2000 mg/kg (rabbit)

fatty acid, tall-oil, reaction products with triethylenetetramine

Oral LD50 >2000 mg/kg (rat)

CAS: 1477-55-0 m-phenylenebis(methylamine)

Oral LD50 1040 mg/kg (rat)

Inhalative LC50/4 h 2.4 mg/l (rat)

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

Oral LD50 1030 mg/kg (rat)

Dermal LD50 1840 mg/kg (rabbit)

CAS: 98-54-4 4-tert-butylphenol

Oral LD50 2951 mg/kg (rat)

Dermal LD50 2288 mg/kg (rabbit)

CAS: 109-55-7 3-aminopropyldimethylamine

Oral LD50 1870 mg/kg (rat)

Dermal LD50 490 mg/kg (rabbit)

CAS: 80-05-7 bisphenol A

Oral LD50 3250 mg/kg (rat)

Dermal LD50 3000 mg/kg (rabbit)

CAS: 25620-58-0 trimethylhexane-1,6-diamine

Oral LD50 910 mg/kg (rat)

* Primary irritant effect:

* Skin corrosion/irritation

Causes severe skin burns and eye damage.

* Serious eye damage/irritation

Causes serious eye damage.

* Sensitisation:

May cause an allergic skin reaction.

* CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

* 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 fertility.

* 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.

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* **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

* **12.1 Toxicity*** **Aquatic toxicity:** No further relevant information available.* **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.* **Ecotoxicological effects:*** **Remark:** Toxic for fish* **Additional ecological information:*** **General notes:**

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

Do not allow undiluted or non-neutralised product to reach the sewage system or receiving waters.

Hazardous to drinking water even if small quantities leak into soil.

Also toxic for fish and plankton in bodies of water.

Toxic for aquatic organisms

* **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**

Not hardened material must be disposed of as hazardous waste according to official regulations.

Hardened product remains may be disposed of as building rubble or put into household garbage.

The given refuse codes are recommendations based upon the intended use of the product. Because of special use and disposal conditions at the user's, other codes may apply under other conditions.

* **European waste catalogue**

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, IMDG, IATA**

UN1760

* **14.2 UN proper shipping name*** **ADR**

1760 CORROSIVE LIQUID, N.O.S. (m-phenylenebis(methylamine)), ENVIRONMENTALLY HAZARDOUS

* **IMDG**

CORROSIVE LIQUID, N.O.S. (m-phenylenebis(methylamine)), MARINE POLLUTANT

* **IATA**

CORROSIVE LIQUID, N.O.S. (m-phenylenebis(methylamine))

* **14.3 Transport hazard class(es)*** **ADR*** **Class**

8 (C9) Corrosive substances.

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* Label	8
<hr/>	
* IMDG	
	
* Class	8 Corrosive substances.
* Label	8
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* IATA	
	
* Class	8 Corrosive substances.
* Label	8
* 14.4 Packing group	
* ADR, IMDG, IATA	III
* 14.5 Environmental hazards:	
* Marine pollutant:	No 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	Alkalis
* Stowage Category	A
* Stowage Code	SW2 Clear of living quarters.
* 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
<hr/>	
* Transport/Additional information:	
* ADR	
* 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
* Transport category	3
* Tunnel restriction code	E
* UN "Model Regulation":	UN 1760 CORROSIVE LIQUID, N.O.S. (M-PHENYLENEBIS(METHYLAMINE)), 8, III, ENVIRONMENTALLY HAZARDOUS

* SECTION 15: Regulatory information

- * 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- * 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
- * REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- * National regulations
- * Other regulations, limitations and prohibition ordinances
APME document: "Epoxy resins and curing agents: Toxicology, working safety, environment."
- * 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

Delivery specifications are found in the respective Technical Information Sheets.

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship.

* Relevant phrases

H226 Flammable liquid and vapour.
 H302 Harmful if swallowed.
 H311 Toxic in contact with skin.
 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.
 H331 Toxic if inhaled.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H361f Suspected of damaging fertility.
 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.

* **Department issuing data specification sheet:** Product Safety department / EHS

* 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)
 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)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Flam. Liq. 3: Flammable liquids – Category 3
 Acute Tox. 4: Acute toxicity – Category 4
 Acute Tox. 3: Acute toxicity – Category 3
 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
 Repr. 2: Reproductive toxicity – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 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