

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

Printing date 28.10.2016

Version number 2

Revision: 11.02.2016

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

* **1.1 Product identifier**

* **Trade name** EPOXY QUICK FIX KOMP. B

* **Article number:** 0021627201

* **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** Coating

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

* **Manufacturer/Supplier:**

Remmers GmbH
Postfach 1255
D-49624 Lönningen / Germany
Tel.: +49(0)5432/83-0
Fax: +49(0)5432/3985

Remmers (UK) Limited
Unit B1 The Fleming Centre
West Sussex RH10 9NN
fon +44 (0) 1293 594 010
fax +44 (0) 1293 594 037

* **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.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Repr. 2 H361 Suspected of damaging fertility or the unborn child.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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

C; Corrosive

R34: Causes burns.

Xn; Harmful

R62: Possible risk of impaired fertility.

Xi; Sensitising

R43: May cause sensitisation by skin contact.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.10.2016

Version number 2

Revision: 11.02.2016

Trade name **EPOXY QUICK FIX KOMP. B**

(Contd. of page 1)

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

*** Classification system:**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

*** 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

*** Signal word** Danger

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

m-phenylenebis(methylamine)

4-tert-butylphenol

trimethylhexane-1,6-diamine

3-aminopropyldimethylamine

*** 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.

H361 Suspected of damaging fertility or the unborn child.

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.

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:** Mixture of the substances listed below with harmless additions.

*** Dangerous components:**

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.10.2016

Version number 2

Revision: 11.02.2016

Trade name **EPOXY QUICK FIX KOMP. B**

(Contd. of page 2)

CAS: 98-54-4 EINECS: 202-679-0 Reg.nr.: 01-2119489419-21-XXXX	4-tert-butylphenol Xn R62; Xi R37/38-41; N R51/53 Repr. 2, H361f; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H335	10-20%
CAS: 1477-55-0 EINECS: 216-032-5 Reg.nr.: 01-2119480150-50-XXXX	m-phenylenebis(methylamine) C R34; Xn R20/22; Xi R43 R52/53 Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412	10-20%
CAS: 25620-58-0 EINECS: 247-134-8	trimethylhexane-1,6-diamine C R34; Xn R22; Xi R43 R52/53 Skin Corr. 1B, H314; Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412	5-10%
CAS: 109-55-7 EINECS: 203-680-9 Index number: 612-061-00-6	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	1-2.5%

* **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

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

* 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)

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.10.2016

Version number 2

Revision: 11.02.2016

Trade name **EPOXY QUICK FIX KOMP. B**

(Contd. of page 3)

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.

*** 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.

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

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.10.2016

Version number 2

Revision: 11.02.2016

Trade name **EPOXY QUICK FIX KOMP. B**

(Contd. of page 4)

*** 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 trough 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.

* 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 at 20 °C:** 11

*** Change in condition**

Melting point/Melting range: Not determined
Boiling point/Boiling range: Not determined

*** Flash point:** 106 °C (Setaflash)

*** Inflammability (solid, gaseous)** Not applicable.

*** Ignition temperature:** not applicable

*** Decomposition temperature:** Not determined.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.10.2016

Version number 2

Revision: 11.02.2016

Trade name **EPOXY QUICK FIX KOMP. B**

(Contd. of page 5)

* 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	1.02 g/cm ³
* 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:	800 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.
Avoid: heat, flames, sparks
- * **10.3 Possibility of hazardous reactions** No dangerous reactions known
- * **10.4 Conditions to avoid** No further relevant information available.
- * **10.5 Incompatible materials:** Strong oxidising agents
- * **10.6 Hazardous decomposition products:**
None if used properly.
None if stored properly.

* 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 4477 mg/kg (rat)
Dermal LD50 27209 mg/kg (rabbit)
Inhalative LC50/4 h 17.1 mg/l (rat)

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

Oral LD50 2951 mg/kg (rat)
Dermal LD50 2288 mg/kg (rabbit)

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

Oral LD50 1040 mg/kg (rat)
Inhalative LC50/4 h 2.4 mg/l (rat)

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.10.2016

Version number 2

Revision: 11.02.2016

Trade name **EPOXY QUICK FIX KOMP. B**

(Contd. of page 6)

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

Oral LD50 910 mg/kg (rat)

CAS: 109-55-7 3-aminopropyldimethylamine

Oral LD50 1870 mg/kg (rat)

Dermal LD50 490 mg/kg (rabbit)

*** 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 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.*** 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:** Harmful to 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.

Harmful to 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**

20 01 28 paint, inks, adhesives and resins other than those mentioned in 20 01 27

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

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.10.2016

Version number 2

Revision: 11.02.2016

Trade name **EPOXY QUICK FIX KOMP. B**

(Contd. of page 7)

* SECTION 14: Transport information

* 14.1 UN-Number	UN2735
* ADR, IMDG, IATA	
* 14.2 UN proper shipping name	2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S.
* ADR	(m-phenylenebis(methylamine), 4-tert-butylphenol)
* IMDG	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), 4-tert-butylphenol)
* IATA	Polyamines, liquid, corrosive, n.o.s. (m-phenylenebis(methylamine), 4-tert-butylphenol)
* 14.3 Transport hazard class(es)	
* ADR	



* Class	8 (C7) Corrosive substances.
* Label	8

* IMDG, IATA



* Class	8 Corrosive substances.
* Label	8
* 14.4 Packing group	
* ADR, IMDG, IATA	III
* 14.5 Environmental hazards:	
* Marine pollutant:	-
	No
* 14.6 Special precautions for user	Warning: Corrosive substances.
* Kemler Number:	80
* EMS Number:	F-A,S-B
* Segregation groups	Alkalis
* Stowage Category	A
* Segregation Code	SG35 Stow "separated from" acids.
* 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.

* 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

* 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

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.10.2016

Version number 2

Revision: 11.02.2016

Trade name **EPOXY QUICK FIX KOMP. B**

(Contd. of page 8)

* **UN "Model Regulation":**UN 2735 POLYAMINES, LIQUID, CORROSIVE,
N.O.S. (M-PHENYLENEBIS(METHYLAMINE), 4-
TERT-BUTYLPHENOL), 8, III* **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.* **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.**SECTION 16: Other information**

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. Delivery specifications are found in the respective Technical Information Sheets.

* **Relevant phrases**

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H361f Suspected of damaging fertility.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

R10 Flammable.

R20/22 Harmful by inhalation and if swallowed.

R22 Harmful if swallowed.

R34 Causes burns.

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

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

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R62 Possible risk of impaired fertility.

* **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

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

(Contd. on page 10)

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

Printing date 28.10.2016

Version number 2

Revision: 11.02.2016

Trade name EPOXY QUICK FIX KOMP. B

(Contd. of page 9)

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 2: Reproductive toxicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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