

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

Printing date 28.10.2016

Version number 3

Revision: 15.03.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking*** 1.1 Product identifier***** Trade name Epoxy Conductive, Comp. A***** Article number:** 6671*** 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
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D-49624 Lönningen / Germany
Tel.: +49(0)5432/83-0
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Remmers (UK) Limited
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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

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24h-Transport Emergency Contact Phone Number:

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

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

Hädaabitelefoni number: Mürgistusteabekeskus: 16662

*** SECTION 2: Hazards identification***** 2.1 Classification of the substance or mixture***** Classification according to Regulation (EC) No 1272/2008**

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

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

not applicable

Xi; Irritant

R36: Irritating to eyes.

*** Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

*** 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.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 3

Revision: 15.03.2016

Trade name **Epoxy Conductive, Comp. A**

(Contd. of page 1)

* Hazard pictograms



GHS05

* Signal word Danger

* Hazard-determining components of labelling:

Linseed oil polymer with bisphenol A, bisphenol A diglycidyl ether, diethylenetriamine, formaldehyde, glycidyl Ph ether and pentaethylenehexamine

* Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

* Precautionary statements

P280 Wear protective gloves.

P280 Wear eye protection / face protection.

P264 Wash thoroughly after handling.

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.

* 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:

CAS: 111-76-2 EINECS: 203-905-0 Index number: 603-014-00-0 Reg.nr.: 01-2119475108-36-XXXX	2-butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	10-20%
CAS: 68915-81-1	Linseed oil polymer with bisphenol A, bisphenol A diglycidyl ether, diethylenetriamine, formaldehyde, glycidyl Ph ether and pentaethylenehexamine Eye Dam. 1, H318; Skin Irrit. 2, H315	5-10%

* 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

If symptoms occur or in case of doubt, seek medical attention. In case of unconsciousness, do not administer anything orally.

Position and transport in a stable side position.

* After inhalation Seek medical treatment in case of complaints.

* After skin contact

Wash immediately with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

* After eye contact

Rinse opened eye for several minutes under running water.

Seek immediate medical advice.

* After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.10.2016

Version number 3

Revision: 15.03.2016

Trade name **Epoxy Conductive, Comp. A**

(Contd. of page 2)

- * **4.2 Most important symptoms and effects, both acute and delayed** Damages cornea and eye lids.
- * **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- * **5.1 Extinguishing media**
- * **Suitable extinguishing agents**
Water
Fire-extinguishing powder
Foam
- * **5.2 Special hazards arising from the substance or mixture**
May be released in case of fire
Nitrous gases
- * **5.3 Advice for firefighters**
- * **Protective equipment:** Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

- * **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
- * **6.2 Environmental precautions:**
Do not allow to enter the ground/soil.
Dilute with plenty of 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 of contaminated material as waste according to item 13.
- * **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.
- * **Information about protection against explosions and fires:** No special measures required.
- * **7.2 Conditions for safe storage, including any incompatibilities**
- * **Storage**
- * **Requirements to be met by storerooms and containers:** No special requirements.
- * **Information on storage in a common storage facility:**
Suitable material for containers and pipes: Light metals and their alloys.
- * **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:**

CAS: 111-76-2 2-butoxyethanol

WEL Short-term value: 246 mg/m³, 50 ppm
Long-term value: 123 mg/m³, 25 ppm
Sk, BMGV

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.10.2016

Version number 3

Revision: 15.03.2016

Trade name **Epoxy Conductive, Comp. A**

(Contd. of page 3)

*** Ingredients with biological limit values:**

CAS: 111-76-2 2-butoxyethanol

BMGV 240 mmol/mol creatinine

Medium: urine

Sampling time: post shift

Parameter: butoxyacetic acid

*** 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 (brown)

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

*** Protection of hands:**

Solvent resistant 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:

Different, according to dye

*** Odour:**

Characteristic

*** Odour threshold:**

Not determined.

*** pH-value:**

Not determined.

*** Change in condition**

Melting point/Melting range:

Not determined

Boiling point/Boiling range:

Not determined

*** Flash point:**

Not applicable

*** Inflammability (solid, gaseous)**

Not applicable.

*** Ignition temperature:**

not applicable

*** Decomposition temperature:**

Not determined.

(Contd. on page 5)

Safety data sheet

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Printing date 28.10.2016

Version number 3

Revision: 15.03.2016

Trade name **Epoxy Conductive, Comp. A**

(Contd. of page 5)

- * **Primary irritant effect:**
- * **Skin corrosion/irritation**
Causes skin irritation.
- * **Serious eye damage/irritation**
Causes serious eye damage.
- * **Sensitisation:** Based on available data, the classification criteria are not met.
- * **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** Based on available data, the classification criteria are not met.
- * **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.
- * **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.
- * **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.
- * **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

- * **14.1 UN-Number**
- * **ADR, ADN, IMDG, IATA** Void
- * **14.2 UN proper shipping name**
- * **ADR, ADN, IMDG, IATA** Void
- * **14.3 Transport hazard class(es)**
- * **ADR, ADN, IMDG, IATA**
- * **Class** Void
- * **14.4 Packing group**
- * **ADR, IMDG, IATA** Void
- * **14.5 Environmental hazards:**
- * **Marine pollutant:** No
- * **14.6 Special precautions for user** Not applicable.

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 3

Revision: 15.03.2016

Trade name **Epoxy Conductive, Comp. A**

(Contd. of page 6)

- * **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- * **Transport/Additional information:** Not a hazardous good according to the above regulations.
- * **UN "Model Regulation":** Void

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**
- * **Information on employment restrictions:**
Employment restrictions concerning young persons must be observed.
Employment restrictions concerning pregnant and nursing women must be observed.
- * **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**
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
- * **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
Acute Tox. 4: Acute toxicity – Category 4
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