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### Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.08.2023

Version number 1

Revision: 16.08.2023

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

### 1.1 Product identifier Trade name EPOXY CONDUCTIVE VDE KOMP B

Article number: 216703

**1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.

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

Manufacturer/Supplier: Remmers GmbH Bernhard-Remmers-Str. 13 D-49624 Löningen / Germany Mano Tel.: +49(0)5432/83-0 Fax: +49(0)5432/3985 Information department: Product Safety department: Phone: +44 (0) 1293 594 010 Email: sales@remmers.co.ukk

Remmers (UK) Limited Unit 4 , Lloyds Court Manor Royal, Crawley – West Sussex RH10 9QU fon +44 (0) 1293 594 010 fax +44 (0) 1293 594 037

### 1.4 Emergency telephone number:

National Poisons Information Service (NPIS): In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111

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

Skin Irrit. 2H315 Causes skin irritation.Eye Irrit. 2H319 Causes serious eye irritation.Skin Sens. 1H317 May cause an allergic skin reaction.Aquatic Chronic 2H411 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 GB CLP regulation. **Hazard pictograms** 



Signal word Warning

### Hazard-determining components of labelling:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) 1,6-Bis(2,3-epoxypropoxy)hexan

bisphenol F-(epichlorhydrin); epoxy resin(number average molecular weight<700)

### Hazard statements

H315 Causes skin irritation.

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- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H411 Toxic to aquatic life with long lasting effects.

### Precautionary statements

- P261 Avoid breathing mist/vapours/spray.
- P264 Wash thoroughly after handling.
- P273 Avoid release to the environment.
- P280 Wear protective gloves / eye protection / face protection.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P391 Collect spillage.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### Additional information:

EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3 Other hazards

### Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

**SECTION 3: Composition/information on ingredients** 

### 3.2 Mixtures

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

Dangerous components [% w/w]:		
CAS: 25068-38-6 NLP: 500-033-5 Index number: 603-074-00-8 Reg.nr.: 01-2119456619-26- XXXX	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH205 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 5 % Eye Irrit. 2; H319: C ≥ 5 %	≥50-≤70%
CAS: 28064-14-4 NLP: 500-006-8 Reg.nr.: 01-2119454392-40- XXXX	bisphenol F-(epichlorhydrin); epoxy resin(number average molecular weight<700) Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	≥20-<25%
CAS: 933999-84-9 EC number: 618-939-5 Reg.nr.: 01-2119463471-41- XXXX	Reaction products of hexane-1,6-diol with 2- (chloromethyl)oxirane Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥20-<25%

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

### After inhalation

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 Wash immediately with water and soap and rinse thoroughly.

### After eye contact

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

#### After swallowing Seek immediate medical advice. 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** No further relevant information available.

### 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 No further relevant information available. (Contd. on page 3)

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### 5.3 Advice for firefighters

Protective equipment: No special measures required.

SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

# Keep people at a distance and stay on the windward side. **6.2 Environmental precautions:**

0.2 Environmental precautions:

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). 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

Ensure good ventilation/exhaust in workplaces. Avoid the formation of aerosols.

# 7.2 Conditions for safe storage, including any incompatibilities Storage

**Requirements to be met by storerooms and containers:** No special requirements. **Further information about storage conditions:** Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

### 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

Appropriate engineering controls No further data; see item 7.

### Individual protection measures, such as personal protective equipment

### General protective and hygienic measures

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.

The following indication regarding the personal protective equipment are to be considered as suggestions. The selection of the necessary personal protective equipment is to be evalutated by the employer depending on the types of operations and the local circumstances. If a risk assessment onsite shows that there is no risk for employees, the personal protective euiqment is not required or the amount of the PPE can be adpated accordingly.

### **Respiratory equipment:**

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.

### Hand protection

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

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.

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**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/face protection** Tightly sealed safety glasses.

**SECTION 9: Physical and chemical properties** 9.1 Information on basic physical and chemical properties **General Information Physical state** Fluid Colour: Yellowish Odour: Aromatic **Odour threshold:** Not determined. Melting point/freezing point: Not determined Boiling point or initial boiling point and boiling range Not determined Flammability Not applicable. Lower and upper explosion limit Not determined. Lower: Upper: Not determined. >100 °C Flash point: Ignition temperature: not applicable **Decomposition temperature:** Not determined. pH at 20 °C 7 Viscosity: **Kinematic viscosity** Not determined. dynamic at 20 °C: 750 mPas Solubility Water: Not miscible or difficult to mix Partition coefficient n-octanol/water (log value) Not determined. Vapour pressure: Not determined. Density and/or relative density Density at 20 °C: 1.15 g/cm<sup>3</sup> **Relative density** Not determined. Vapour density Not determined. 9.2 Other information **Appearance:** Form: Liquid Important information on protection of health and environment, and on safety. **Explosive properties:** Product is not explosive. Solvent separation test < 3 % VOC EU 0.0 g/l Change in condition **Evaporation rate** Not determined. Information with regard to physical hazard classes **Explosives** Void Flammable gases Void Aerosols Void **Oxidising gases** Void Gases under pressure Void Flammable liquids Void Flammable solids Void Self-reactive substances and mixtures Void **Pyrophoric liquids** Void **Pyrophoric solids** Void

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Void		
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### **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 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: No dangerous decomposition products known

### **SECTION 11: Toxicological information**

#### **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity:** Based on available data, the classification criteria are not met.

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### LD/LC50 values that are relevant for classification:

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

Oral LD50 >10,000 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rat)

### CAS: 933999-84-9 Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane

Oral LD50 8,500 mg/kg (rat)

Dermal LD50 >4,900 mg/kg (rat)

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Sensitisation: May cause an allergic skin reaction.

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.

11.2 Information on other hazards

### Endocrine disrupting properties

None of the ingredients is listed.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Aquatic toxicity:

CAS: 933999-84-9 Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane

EC50/48h 67 mg/l (Daphnia magna)

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.

### 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

vPvB: Not applicable.

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12.6 Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.
12.7 Other adverse effects
Remark: Toxic for fish
Additional ecological information:
General notes:
Do not allow product to reach ground water, bodies of water or sewage system.
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

**SECTION 13: Disposal considerations** 

#### Recommendation

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. Packaging can be reused or recycled after cleaning.

**SECTION 14: Transport information** 

14.1 UN number or ID number ADR, IMDG, IATA	Void
14.2 UN proper shipping name ADR, 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:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Maritime transport in bulk according IMO instruments	to Not applicable.
Transport/Additional information:	
ADR Remarks:	In drums/vessels ≤ 5 L/Kg no dangerous good according transport regulations.
IMDG Remarks:	In drums/vessels ≤ 5 L/Kg no dangerous good according transport regulations.
IATA Remarks:	In drums/vessels ≤ 5 L/Kg no dangerous good according transport regulations.
UN "Model Regulation":	Void

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**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

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

**REGULATION (EU) 2019/1148** 

# Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

### Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

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**

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.

H412 Harmful to aquatic life with long lasting effects.

EUH205 Contains epoxy constituents. May produce an allergic reaction.

Classification according to Regulation (EC) No 1272/2008 Calculation method

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

#### Abbreviations and acronyms:

ADR: Accord relatif au transport international 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 Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – 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