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### Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.12.2022

Version number 8 (replaces version 7)

Revision: 13.12.2022

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

#### 1.1 Product identifier

### Trade name Epoxy BS 2000 clear, component B

Article number: 6011

**1.2 Relevant identified uses of the substance or mixture and uses advised against Product category** PC9a Coatings and paints, thinners, paint removers

#### 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. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting e

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 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 serie	ous eye irritation.			
H317 May cause a	an allergic skin reaction.			
H411 Toxic to aquatic life with long lasting effects.				
Precautionary sta	atements			
P260	Do not breathe dust/fume/gas/mist/vapours/spray.			
P273	Avoid release to the environment.			
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.			
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.			
P302+P352	IF ON SKIN: Wash with plenty of soap and water.			
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
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	S S			
The residual contempre (0.001%)	ent of epichlorhydrin corresponds to APME recommendations: modified resins < 10			
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); epoxyresin (number average molecular weight ≤ 700)Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2,H319; Skin Sens. 1, H317, EUH205Specific 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

#### General information

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

#### 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

Seek immediate medical advice.

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.

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#### **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
May be released in case of fire
Carbon monoxide (CO)
Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
Hydrogen chloride (HCI)
Formation of poisonous gases during heating or in fires.
5.3 Advice for firefighters
Protective equipment:
Wear full protective suit.
Wear self-contained breathing apparatus.
Put on breathing apparatus.
Additional information
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.

#### 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).

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: 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: Prevent any penetration into the ground.
Information on storage in a common storage facility: none
Further information about storage conditions:
Protect from frost.
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.

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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

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.

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:

#### Filter A (brown)

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.

#### Hand protection

Long cuffed gloves

Protective aloves.

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

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

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

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		
Lower:	Not determined.	
Upper:	Not determined.	
Flash point:	> 105 °C	
Ignition temperature:	not applicable	
Decomposition temperature:	Not determined.	

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рН	Not determined.
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)	
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	1.15 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
vapour density	not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of health	
and environment, and on safety.	
Explosive properties:	Product is not explosive.
Solvent separation test	< 3 %
Organic solvents:	0.0 %
VOC EU	
Solid content:	100.0 %
Change in condition	100.0 /0
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
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void
	Void

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

May produce violent reactions with bases and numerous organic substances including alcohols and amines

Exothermic polymerisation

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:** Irritating gases/vapours

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* 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.		
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.		
<b>Reproductive toxicity:</b> Based on available data, the classification criteria are not met.		
<b>STOT-single exposure:</b> Based on available data, the classification criteria are not met. <b>STOT-repeated exposure:</b> 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.		
<b>12.6 Endocrine disrupting properties</b> 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		
Not hardened material must be disposed of as hazardous waste according to official regulations.		

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

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# 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	UN3082
14.2 UN proper shipping name ADR	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin (reaction product: bisphenol A-(epichlorhydrin) (number average molecular weight ≤ 700)))
IMDG IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin (reaction product: bisphenol A-(epichlorhydrin) (number average molecular weight ≤ 700))), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin (reaction product: bisphenol A-(epichlorhydrin) (number average
	molecular weight ≤ 700)))
14.3 Transport hazard class(es)	
ADR	
Class	9 (M6) Miscellaneous hazardous substances and articles.
Label	9
IMDG	
Class Label	9 Miscellaneous hazardous substances and articles. 9
ΙΑΤΑ	
Class Label	9 Miscellaneous hazardous substances and articles. 9
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards: Marine pollutant:	Product contains environmentally hazardous substances: Epoxy Resin (reaction product: bisphenol A-(epichlorhydrin) (number average molecular weight ≤ 700)) Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous hazardous substances and articles.

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(Contd. of page 7) hazard identification number: 90 **EMS Number:** F-A,S-F **Stowage Category** А 14.7 Maritime transport in bulk according to **IMO** instruments 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** (-) 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 **UN "Model Regulation": UN 3082 ENVIRONMENTALLY HAZARDOUS** SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN) (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

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.

#### 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**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

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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

Date of previous version: 03.06.2020

Version number of previous version: 7

#### 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