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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.12.2022

Version number 7 (replaces version 6)

Revision: 13.12.2022

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

1.1 Product identifier

Trade name Epoxy Universal, Component B

Article number: 5590, 5591, 5592

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 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

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H373 May cause damage to the hearing organs through prolonged or repeated exposure.

Aquatic Chronic 3 H412 Harmful 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

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Hazard-determining components of labelling:	
epoxy resin	
xylené	
Hazard statements	
H226 Flammable liquid and vapour.	
H315 Causes skin irritation.	
H319 Causes serious eye irritation.	
H317 May cause an allergic skin reaction.	
H335 May cause respiratory irritation.	
H373 May cause damage to the hearing organs through prolonged or repeated exposure.	
H412 Harmful to aquatic life with long lasting effects.	
Precautionary statements	
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition source	es.
No smoking.	
P240 Ground and bond container and receiving equipment.	
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.	
P260 Do not breathe dust/fume/gas/mist/vapours/spray.	
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.	
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin	
with water [or shower].	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact	
lenses, if present and easy to do. Continue rinsing.	
P321 Specific treatment (see on this label).	
P405 Store locked up.	
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 Mixtures

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

Dangerous components [% w/w]:		
CAS: 25036-25-3	epoxy resin	≥70-≤85%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32- XXXX	xylene Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≥10-<20%
EC number: 918-668-5 Reg.nr.: 01-2119455851-35- XXXX	hydrocarbons, C9, aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336, EUH066	≥2.5-<5%
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4	ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332	≥2.5-<5%

Additional information

Benzene content: < 0,1% Note P is applicable. It is not necessary to classify nor to mark the product as carcinogenic.

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

Supply fresh air and call for doctor for safety reasons.

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

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(Contd. of page 2) After skin contact Do not use solvents or thinners! Wash immediately with water and soap and rinse thoroughly. Wash off immediately with water. After eye contact Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor. After swallowing Rinse out mouth immediately with plenty of water and administer plenty of water in small swallows (diluting effect). 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 CO, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. For safety reasons unsuitable extinguishing agents Water with a full water jet. 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.: Hvdrogen chloride (HCl) Formation of poisonous gases during heating or in fires. Vapours are heavier than air and spread out over the ground. Ignition over greater distances is possible. 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

Keep away from ignition sources

Put on breathing apparatus.

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Do not allow to enter the ground/soil.

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. Page 4/9

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Information about protection against explosions and fires: Fumes can combine with air to form an explosive mixture.

Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep breathing equipment ready.

7.2 Conditions for safe storage, including any incompatibilities Storage

Requirements to be met by storerooms and containers:

Ventilate storage and work rooms sufficiently.

Install solvent resistant, sealed floor.

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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Comp	onents with limit values that require monitoring at the workplace:
CAS:	1330-20-7 xylene
	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV
CAS:	100-41-4 ethylbenzene
	Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm Sk
Ingred	lients with biological limit values:
CAS:	1330-20-7 xylene
BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

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.

Apply solvent-resistant skin protection preparation before beginning work.

Keep away from food, beverages and animal feed.

Immediately remove soiled, saturated clothing.

Wash hands before pauses and after work.

Store protective clothing separately. 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 evaluated by the employer depending on the types of operations and the local circumstances. If a risk assessment on-site 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/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.

Hand protection

Solvent resistant gloves

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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

Butyl rubber, BR

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

if there is a risk of splashes Tightly sealed safety glasses. **Body protection:** Protective work clothing. Apron

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemi	cal properties	
General Information		
Physical state	Fluid	
Colour:	Clear	
Odour:	Solvent-like	
Odour threshold:	Not determined.	
Melting point/freezing point:	Not determined	
Boiling point or initial boiling point and boili		
range	137 °C	
Flammability	Flammable.	
Lower and upper explosion limit		
Lower:	Not determined.	
Upper:	Not determined.	
Flash point:	38 °C	
Ignition temperature:	not applicable	
Decomposition temperature:	Not determined.	
рН	Not determined.	
Viscosity:		
Kinematic viscosity	Not determined.	
dynamic at 20 °C:	5,650 mPas	
Solubility		
Water:	Not miscible or difficult to mix	
Partition coefficient n-octanol/water (log value	ue) Not determined.	
Vapour pressure:	Not determined.	
Density and/or relative density		
Density at 20 °C:	1.08 g/cm³	
Relative density	Not determined.	
Vapour density	Not determined.	
9.2 Other information		
Appearance:		
Form:	Fluid	
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Important information on protection of health and environment, and on safety.	
Explosive properties:	Product is not explosive. However, formation of dangerous explosive vapour/air mixtures is possible.
Solvent separation test	< 3 %
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	Flammable liquid and vapour.
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

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

Ignition-capable vapour-air mixtures may develop if stored in large containers or above room temperature

Used empty containers may contain product gases which form explosive mixtures with air

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

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: No further relevant information available. **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: May cause respiratory irritation.

STOT-repeated exposure:

May cause damage to the hearing organs through prolonged or repeated exposure.

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

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Experience with humans:

High concentrations may cause tiredness and dizziness.

Frequent or longer lasting skin contact may degrease and dry out skin which may lead to skin irritation and inflammation (dermatitis).

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

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.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Remark: Harmful to 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. Harmful to aquatic organisms

SECTION 13: Disposal considerations

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. Packaging can be reused or recycled after cleaning.

SECTION 14: Transport information

14.1 UN number or ID number ADR, ADN, IMDG IATA	Void UN1263
14.2 UN proper shipping name ADR, ADN, IMDG IATA	Void PAINT
14.3 Transport hazard class(es)	
ADR, ADN, IMDG Class	Void

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Class Label	3 Flammable liquids. 3
14.4 Packing group ADR, IMDG IATA	Void III
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Maritime transport in bulk accordi IMO instruments	i ng to Not applicable.
UN "Model Regulation":	Void
SECTION 15: Regulatory information	on

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 P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 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

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.

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H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

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

Department issuing data specification sheet: Product Safety department / EHS

Date of previous version: 17.06.2020

Version number of previous version: 6

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

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids - Category 3

Acute Tox. 4: Acute toxicity - Category 4

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

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

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

Asp. Tox. 1: Aspiration 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