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# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 19.09.2023

Version number 2 (replaces version 1)

Revision: 19.09.2023

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

### 1.1 Product identifier Trade name 2K BODENBESCHICHTUNG KOMP B

Article number: 7760

1.2 Relevant identified uses of the substance or mixture and uses advised against Technical function Plating agent

#### 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 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:

bisphenol F-(epichlorhydrin); epoxy resin(number average molecular weight<700) reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) 1,6-Bis(2,3-epoxypropoxy)hexan Hazard statements H315 Causes skin irritation. Page 2/8

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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

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read carefully and follow all instructions.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

#### 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: Modified epoxide resin

Dangerous	components	[% w/w]	:
		L'	

Dangerous components [% w/w]:		
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	≥40-<50%
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 $\leq$ 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 $\geq$ 5 % Eye Irrit. 2; H319: C $\geq$ 5 %	≥30-<40%
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	≥10-<20%
CAS: 111-76-2 EINECS: 203-905-0 Index number: 603-014-00-0	2-butoxyethanol Acute Tox. 3, H331; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319 ATE: LD50 oral: 1,200 mg/kg LC50/4 h inhalative: 3 mg/l	≥10-<20%

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

Take affected persons into the open air and position comfortably

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.

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(Contd. of page 2) 4.2 Most important symptoms and effects, both acute and delayed Irritating effect on skin and eyes. 4.3 Indication of any immediate medical attention and special treatment needed symptomatic treatment **SECTION 5: Firefighting measures** 5.1 Extinguishing media Suitable extinguishing agents Foam Water spray jet Water mist Dry extinguishing agents, carbon dioxide, sand or earth should only be used for small fires. 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) 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. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.

#### SECTION 6: Accidental release measures

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

Ensure adequate ventilation

#### 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).

### 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.

# 7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and containers: Store only in the original container. Information on storage in a common storage facility: Store away from food. 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

#### Components with limit values that require monitoring at the workplace:

#### CAS: 111-76-2 2-butoxyethanol WEL Short-term value: 246 mg/m<sup>3</sup>, 50 ppm

Long-term value: 123 mg/m³, 25 ppm Sk, BMGV Page 4/8

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ſ	Ingredients with biological limit values:	
ſ	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 a	as a basis.

#### 8.2 Exposure controls

Appropriate engineering controls Use only in well-ventilated areas.

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: Not necessary if room is well-ventilated.

#### Hand protection

Impervious gloves

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

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	>105 °C	
Flammability	Not applicable.	

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Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	84 °C
Ignition temperature:	not applicable
Decomposition temperature:	Not determined.
pH Minera itu	Not determined.
Viscosity:	<b>N I I I</b>
Kinematic viscosity	Not determined.
dynamic at 20 °C:	200 mPas
Solubility	
Water:	Not miscible or difficult to mix
Partition coefficient n-octanol/water (log value	) pure epoxide resin
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	1.11 g/cm <sup>3</sup>
Relative 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:	10.5 %
VOC EU	116.6 g/l
Change in condition	110.0 g/l
Evaporation rate	Not determined.
•	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
Organia narovidao	Void
Organic peroxides	Void
Organic peroxides Corrosive to metals Desensitised explosives	Void 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 Reacts with strong oxidising agents

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

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#### 10.6 Hazardous decomposition products:

None if used properly. None if stored properly.

**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: 2506	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: 9339	999-84-9 F	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)	
CAS: 111-	CAS: 111-76-2 2-butoxyethanol		
Oral	LD50	1,200 mg/kg (ATE)	
		1,480 mg/kg (rat)	
Dermal	LD50	mg/kg (rabbit)	
Inhalative	LC50/4 h	3 mg/l (ATE)	
Ckin com	Skin corrosion/irritation: Causes skin irritation		

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.

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

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**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. Hardened material can be disposed of as building rubble.

#### 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.

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) Void   ADR, ADN, IMDG, IATA Void   14.4 Packing group ADR, IMDG, IATA Void   14.5 Environmental hazards: Marine pollutant: Yes   14.6 Special precautions for user Not applicable.   14.7 Maritime transport in bulk according to IMO instruments 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.	SECTION 14: Transport information		
ADR, IMDG, IATA Void   14.3 Transport hazard class(es) ADR, ADN, IMDG, IATA   Class Void   14.4 Packing group Void   ADR, IMDG, IATA Void   14.4 Packing group Void   ADR, IMDG, IATA Void   14.5 Environmental hazards: Yes   Marine pollutant: Yes   14.6 Special precautions for user Not applicable.   14.7 Maritime transport in bulk according to IMO instruments 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.		Void	
ADR, ADN, IMDG, IATA ClassVoid14.4 Packing group ADR, IMDG, IATAVoid14.5 Environmental hazards: Marine pollutant:Yes14.6 Special precautions for userNot applicable.14.7 Maritime transport in bulk according to IMO instrumentsNot applicable.Transport/Additional information:Not applicable.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.		Void	
Class Void   14.4 Packing group ADR, IMDG, IATA Void   14.5 Environmental hazards: Marine pollutant: Yes   14.6 Special precautions for user Not applicable.   14.7 Maritime transport in bulk according to IMO instruments Not applicable.   14.7 Maritime transport in bulk according to IMO instruments 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	14.3 Transport hazard class(es)		
ADR, IMDG, IATAVoid14.5 Environmental hazards: Marine pollutant:Yes14.6 Special precautions for userNot applicable.14.7 Maritime transport in bulk according to IMO instrumentsNot applicable.Transport/Additional information:Not applicable.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.		Void	
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14.7 Maritime transport in bulk according to IMO instruments Not applicable.   Transport/Additional information: ADR   ADR In drums/vessels ≤ 5 L/Kg no dangerous good according transport regulations.   IMDG In drums/vessels ≤ 5 L/Kg no dangerous good according transport regulations.   IMDG In drums/vessels ≤ 5 L/Kg no dangerous good according transport regulations.   IMDG In drums/vessels ≤ 5 L/Kg no dangerous good according transport regulations.   IATA In drums/vessels ≤ 5 L/Kg no dangerous good		Yes	
IMO instruments Not applicable.   Transport/Additional information: ADR   ADR In drums/vessels ≤ 5 L/Kg no dangerous good according transport regulations.   IMDG In drums/vessels ≤ 5 L/Kg no dangerous good according transport regulations.   IMDG In drums/vessels ≤ 5 L/Kg no dangerous good according transport regulations.   IATA In drums/vessels ≤ 5 L/Kg no dangerous good   IATA In drums/vessels ≤ 5 L/Kg no dangerous good	14.6 Special precautions for user	Not applicable.	
ADR In drums/vessels ≤ 5 L/Kg no dangerous good according transport regulations.   IMDG In drums/vessels ≤ 5 L/Kg no dangerous good according transport regulations.   IMDG In drums/vessels ≤ 5 L/Kg no dangerous good according transport regulations.   IATA In drums/vessels ≤ 5 L/Kg no dangerous good			
Remarks: In drums/vessels ≤ 5 L/Kg no dangerous good according transport regulations.   IMDG In drums/vessels ≤ 5 L/Kg no dangerous good according transport regulations.   IATA In drums/vessels ≤ 5 L/Kg no dangerous good according transport regulations.	Transport/Additional information:		
Remarks: In drums/vessels ≤ 5 L/Kg no dangerous good according transport regulations.   IATA In drums/vessels ≤ 5 L/Kg no dangerous good	Remarks:		
Remarks: In drums/vessels ≤ 5 L/Kg no dangerous good	Remarks:		
UN "Model Regulation": Void	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. 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

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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**

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- May cause an allergic skin reaction. H317
- Causes serious eye irritation. H319
- H331 Toxic if inhaled.

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

### Version number of previous version: 1

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

Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 3

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