



Safety Data Sheet

pursuant to Regulation (EC) No 1907/2006, Article 31

Print date: March 25, 2025

Version number 3 (replaces version 2)

Revised on: November 12, 2024

* Section 1: Identification of the substance or mixture and of the company

1.1 Product identifier

Trade name: 2K FLOOR COATING COMP B**Article number:** 7760

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Technical function: Coating agent

1.3 Details of the supplier providing the safety data sheet Manufacturer/

Supplier:

Remmers GmbH
Bernhard-Remmers-Str. 13
49624 Lönigen
Tel.: 05432/83-0
Fax: 05432/3985

Information provided by:

Product Safety Department: Tel.: 05432/83 -138 or -335 or -509
Email: ehs@remmers.de

1.4 Emergency number:

Poison Control Center North - 24-hour hotline: +49(0)551 - 19240
Poison Control Center Austria - 24-hour hotline: +43(0)1 406 43 43

24-hour transport emergency contact phone
number: within Germany: 0800 181 7059
within USA and Canada: 1-800-424-9300
outside USA and Canada: 001-703-527-3887

* Section 2: Potential Dangers

2.1 Classification of the substance or mixture Classification

according to Regulation (EC) No 1272/2008:

Skin Irrit. 2 H315 Causes skin irritation. H319 Causes
Eye Irrit. 2 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 Identification elements

Labelling in accordance with Regulation (EC) No 1272/2008:

The product is classified and labelled in accordance with the CLP Regulation.

Hazard pictograms:

GHS07 GHS09

Signal word: Danger**Hazard-determining components for labeling:**

Reaction product: Bisphenol-A-epichlorohydrin; epoxy resin (average number mean molecular weight) ≤ 700) Bisphenol-F-epichlorohydrin resins MG < 700

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[[[2-Ethylhexyl]oxy]methyl]oxirane

REACTION PRODUCTS OF 2,2-DIMETHYLPROPANE- 1,3-DIOL WITH 1-CHLORO-2,3-EPOXYPROPANE

Hazard warnings:

H315 Causes skin irritation. H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long-lasting effects. **Safety instructions:**

P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children.

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards
Results of the PBT and vPvB assessment
PBT:Not applicable.**vPvB:**Not applicable.**Determination of endocrine-damaging properties**Not applicable.
*** Section 3: Composition/Information on ingredients**
3.2 Mixtures
Description:modified epoxy resin
Hazardous ingredients [% w/w]:

CAS: 25068-38-6 NLP: 500-033-5 Index number: 603-074-00-8 Reg. no.: 01-2119456619-26-XXXX	Reaction product: Bisphenol-A-epichlorohydrin; epoxy resin (average number mean molecular weight)≤700 Aquatic Chronic 2, H411; Skin irritation. 2, H315; Eye irritation. 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. no.: 01-2119454392-40-XXXX	Bisphenol-F-epichlorohydrin resins MG < 700 Aquatic Chronic 2, H411; Skin irritation. 2, H315; Skin Sens. 1, H317	≥10-<20%
CAS: 2461-15-6 EINECS: 219-553-6 Reg. no.: 01-2119962196-31-XXXX	[[[2-Ethylhexyl]oxy]methyl]oxirane Skin irritation. 2, H315; Skin Sens. 1, H317	≥5-<10%
EC number: 701-333-0 Reg. no.: 01-2120759332-55-XXXX	REACTION PRODUCTS OF 2,2-DIMETHYLPROPANE-1,3-DIOL WITH 1-CHLORO-2,3-EPOXYPROPANE Skin irritation. 2, H315; Eye irritation. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥5-<10%
CAS: 5131-66-8 EINECS: 225-878-4 Index number: 603-052-00-8 Reg. no.: 01-2119475527-28-XXXX	3-Butoxypropan-2-ol Skin irritation. 2, H315; Eye irritation. 2, H319	≥5-<10%

Additional information:

The wording of the listed hazard warnings can be found in section 16.

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Section 4: First Aid Measures

4.1 Description of first aid measures General information:

If symptoms occur or in case of doubt, seek medical advice. Do not administer by mouth if unconscious.

After inhalation:

Take the affected person outside to fresh air and keep them calm. Ensure plenty of fresh air and, as a precaution, consult a doctor. If unconscious, position and transport the person in the recovery position.

After skin contact: Wash immediately with soap and water and rinse thoroughly.

After eye contact:

Rinse eyes under running water for several minutes with eyelids open. Consult a doctor if symptoms persist.

After swallowing: Seek medical advice immediately.

4.2 Most important acute and delayed symptoms and effects: Irritating effect on skin and eyes.

4.3 Indications of immediate medical assistance or special treatment: symptomatic treatment

Section 5: Firefighting measures

5.1 Extinguishing agents

Suitable extinguishing agents:

foam

Water spray jet

Water mist

Dry chemicals, carbon dioxide, sand, or earth are only suitable for small fires. Adapt firefighting measures to the surrounding environment.

5.2 Special hazards arising from the substance or mixture:

Carbon monoxide (CO) can be released in a fire.

Under certain fire conditions, traces of toxic substances cannot be ruled out, such as hydrogen chloride (HCl).

5.3 Instructions for firefighting Special protective equipment:

Wear self-contained breathing apparatus. Wear a full protective suit.

More information

Cool vulnerable containers with a water spray jet.

Fire residues and contaminated extinguishing water must be disposed of in accordance with official regulations.

Collect contaminated firefighting water separately; it must not enter the sewer system.

* Section 6: Measures in case of accidental release

6.1 Personal precautions, protective equipment and procedures to be used in emergencies:

Ensure adequate ventilation.

6.2 Environmental protection measures:

Do not allow to enter the subsoil/soil.

Do not allow to enter sewers or waterways. In case of pollution of rivers, lakes or sewage pipes, notify the relevant authorities in accordance with local laws.

In case of intrusion into waterways or sewers, notify the relevant authorities.

6.3 Methods and materials for containment and cleaning:

Pump out larger quantities, absorb them with absorbent material, rinse off small quantities, dispose of wastewater properly.

Dispose of contaminated material as waste in accordance with section 13.

6.4 Reference to other sections:

For information on safe handling, see section 7. For information on personal protective equipment, see section 8. For information on disposal, see section 13.

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* Section 7: Handling and Storage

7.1 Protective measures for safe handling: Use only in well-ventilated areas.

7.2 Conditions for safe storage, taking into account incompatibilities: Storage:

Requirements for storage rooms and containers: Store only in the original container. **Storage instructions:** Store separately from food. **Further information on storage conditions:** Store the container in a well-ventilated place. Protect from frost.

Keep the container tightly closed.

Storage class (TRGS 510): 10

Classification according to the German Ordinance on Industrial Safety and Health (BetrSichV):-

* Section 8: Exposure Limitation and Control/Personal Protective Equipment

8.1 Parameters to be monitored

Components with workplace-related limit values that must be monitored:	
CAS: 2461-15-6 [[(2-Ethylhexyl)oxy]methyl]oxirane	
MAK	See section IVe

Additional information: The lists valid at the time of their creation served as the basis.

8.2 Limiting and monitoring exposure

Suitable technical control devices: Use only in well-ventilated areas. **Individual protective measures, for example personal protective equipment. General protective and hygiene measures:**

Do not eat, drink, smoke, or use snuff at work. Protect your skin with a skin protectant ointment.

Keep away from food, drinks, and animal feed. Remove contaminated clothing immediately.

Wash your hands before breaks and at the end of the workday. Avoid contact with eyes and skin.

The following information regarding personal protective equipment (PPE) is to be understood as a suggestion. The selection of necessary PPE must be assessed by the employer based on the tasks to be performed and the local conditions. If the on-site risk assessment determines that there is no danger to the employee, the wearing of PPE can be waived or the scope of the PPE adjusted accordingly.

Respiratory protection: Not necessary with good room ventilation.

Hand protection

Impermeable gloves. Gloves with long cuffs. Protective gloves.

The glove material must be impermeable and resistant to the product / fabric / preparation.

Selection of glove material taking into account breakthrough times, permeation rates and degradation.

Glove material:

Butyl rubber

For example, Butoject from KCL, chemical protection gloves made of pure butyl rubber or nitrile rubber.

For example, Tricotril from KCL. Layer thickness 1.5 mm; permeation depends on usage conditions, according to manufacturer's specifications after a maximum of 480 minutes (DIN EN 374). Alternatively, other gloves that correspond to category 3 according to EN 374. The instructions of TRGS 401 and DGUV Information 212-007 must be observed.

Choosing the right glove depends not only on the material but also on other quality characteristics, and varies from manufacturer to manufacturer. Since the product is a combination of several materials, the durability of glove materials is unpredictable and must therefore be tested before use.

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Penetration time of the glove material:

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

The exact penetration time can be obtained from the manufacturer or supplier. **Eye/face protection**

Face shield.

Tightly sealing safety goggles according to EN 166. **Body**

protection: Workwear protective clothing. **Limiting and**

monitoring environmental exposure

Use suitable containers to prevent environmental contamination. Prevent entry into sewers or surface and groundwater.

Information on limiting and monitoring environmental exposure can be found in section 6.

* Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General information

State of matter	Fluid
Color	Yellowish.
Odor:	aromatic
Odor threshold:	Not determined
Melting point/freezing point: Boiling point or initial boiling point and boiling range	Not determined.
Flammability	> 105 °C
Lower and upper explosion limits: lower:	Not applicable.
upper:	Not determined.
Flash point:	Not determined.
Ignition temperature	84 °C
Decomposition temperature:	not applicable.
PH value:	Not determined.
Viscosity:	Not determined.
Kinematic viscosity dynamically at 20 °C:	200 mPas
Solubility	
Water:	Not or only slightly miscible.
Distribution coefficient n-octanol/water (log value)	pure epoxy resin
Vapor pressure:	Not determined.
Density and/or relative density.	
Density at 20 °C:	1.11 g/cm ³
Relative density:	Not determined.
Vapor density:	Not determined.

9.2 Other information:

Look:	Fluid
Form:	
Important information regarding health and environmental protection as well as safety.	
Explosive properties:	The product is not explosive. < 3%
Solvent separation test:	
Organic solvents:	10.5%
Change of state	
Evaporation rate:	Not determined.

Information on physical hazard classes:
Explosive substances/mixtures and articles containing explosives

Not applicable.

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Flammable gases	Not applicable.
Aerosols	Not applicable.
Oxidizing gases	Not applicable.
Gases under pressure	Not applicable.
Flammable liquids	Not applicable.
Flammable solids	Not applicable.
Self-reactive substances and mixtures	Not applicable.
Pyrophoric liquids	Not applicable.
Pyrophorous solids	Not applicable.
Self-heating substances and mixtures; substances and mixtures that emit flammable gases in contact with water; oxidizing liquids	Not applicable.
Oxidizing solids	Not applicable.
Organic peroxides	Not applicable.
Substances and mixtures that are corrosive to metals	Not applicable.
Desensitized substances/mixtures and articles containing explosives	Not applicable.

Section 10: Stability and Reactivity

10.1 Reactivity: No further relevant information is available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition occurs when stored and handled as intended.

10.3 Possibility of dangerous reactions: Reactions with strong oxidizing agents.

10.4 Conditions to be avoided: No further relevant information is available.

10.5 Incompatible materials: No further relevant information is available.

10.6 Hazardous decomposition products:

None when used as intended. None when stored correctly.

* Section 11: Toxicological Information

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

LD/LC50 values relevant for classification:		
CAS: 25068-38-6 Reaction product: Bisphenol-A-epichlorohydrin; epoxy resin (average number mean of molecular weight) ≤ 700)		
Orally	LD50	> 10,000 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)

Corrosive/irritating effect on the skin: Causes skin irritation.

Severe eye damage/irritation: Causes serious eye irritation. **Sensitization of the respiratory tract/skin:** May cause allergic skin reactions. **Germ cell mutagenicity:** Based on the available data, the classification criteria are not met. **Carcinogenicity:** Based on the available data, the classification criteria are not met. **Reproductive toxicity:** Based on the available data, the classification criteria are not met. **Specific target organ toxicity after a single exposure:** Based on the available data, the classification criteria are not met. **Specific target organ toxicity upon repeated exposure:** Based on the available data, the classification criteria are not met. **Risk of aspiration:** Based on the available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine-damaging properties
None of the ingredients are included.

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* Section 12: Environmental Information

12.1 Toxicity

Aquatic toxicity: No further relevant information is available.

12.2 Persistence and degradability: No further relevant information is available.

12.3 Bioaccumulation potential: No further relevant information is available.

12.4 Mobility in the soil: No further relevant information is available.

12.5 Results of the PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine-damaging properties

The product contains no substances with endocrine-disrupting properties.

12.7 Other harmful effects: No further relevant information is available. **Remark:** Toxic to fish. **Further ecological information: General information:**

according to AwSV

Water hazard class (WGK) 2: significantly hazardous to water

Do not allow to enter groundwater, bodies of water, or sewers. Even small amounts leaking into the ground can pose a risk to drinking water. Also toxic to fish and plankton in bodies of water.

Toxic to aquatic organisms

Section 13: Disposal Instructions

13.1 Waste treatment procedures

The waste codes listed are a recommendation based on the intended use of this product.

Depending on the specific use and disposal conditions at the user's site, other waste codes may apply. Cured material can be disposed of as construction waste.

European Waste Catalogue:

08 01 11*	Paint and varnish waste containing organic solvents or other hazardous substances
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Uncleaned packaging:

Recommendation:

Disposal in accordance with official regulations.

The packaging can be reused or recycled after cleaning.

* Section 14: Information on transport

14.1 UN number or ID number

ADR, IMDG, IATA

Not applicable.

14.2 Proper UN shipping designation: ADR, IMDG,

IATA

Not applicable.

14.3 Transport hazard classes:

ADR, ADN, IMDG, IATA

Class

Not applicable.

14.4 Packaging group:

ADR, IMDG, IATA

Not applicable.

14.5 Environmental hazards:

Marine pollutant:

Yes

14.6 Special precautions for the user:

Not applicable.

14.7 Shipping of bulk cargo by sea in accordance with IMO instruments

Not applicable.

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Transport/further details:	
ADR	
Remarks:	In packaging ≤ 5 L/Kg not classified as dangerous goods.
IMDG	
Remarks:	In packaging ≤ 5 L/Kg not classified as dangerous goods.
IATA	
Remarks:	In packaging ≤ 5 L/Kg not classified as dangerous goods.
UN "Model Regulation":	Not applicable.

* Section 15: Legal Regulations

15.1 Safety, health and environmental protection regulations/specific legislation for the substance or mixture

Directive 2012/18/EU

Dangerous substances listed by name - ANNEX I: None of the ingredients are included.

Seveso category: E2 Hazardous to the water

Quantity threshold (in tonnes) for use in lower class establishments: 200 t **Quantity threshold (in tonnes) for use in upper class establishments:** 500 t **REGULATION (EC) No 1907/2006 ANNEX XVII** Restriction conditions: 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 are included.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED PRECIOUS MATERIALS FOR EXPLOSIVES (Upper concentration limit for an authorisation under Article 5(3))

None of the ingredients are included.

Annex II - Notifiable Precursors for Explosives

None of the ingredients are included.

National regulations: Technical

Instructions on Air Quality Control:

Class	Percentage
NK	≥5-<10

Water hazard class: WGK 2:

significantly hazardous to water.
according to AwSV

Other regulations, restrictions and prohibitions APME document: "Epoxy resins and hardeners. Toxicology, occupational safety, environment" **BG information sheet:**

DGUV Rule 113-012 (BGR 227) "Activities with epoxy resins" M
004 (BGI 595) "Irritants/corrosive substances"

15.2 Chemical safety assessment: A chemical safety assessment was not carried out.

* Section 16: Other information

The information provided is based on our current knowledge; however, it does not constitute a guarantee of product characteristics and does not establish a legally binding contractual relationship. Please refer to the respective "Technical Data Sheets" for delivery specifications.

Relevant sentences:

H315 Causes skin irritation.

H317 May cause allergic skin reactions. Causes

H319 serious eye irritation.

H411 Toxic to aquatic life with long-lasting effects. Harmful to

H412 aquatic life with long-lasting effects.

EUH205 Contains epoxy compounds. May produce an allergic reaction.

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Classification according to Regulation (EC) No**1272/2008** Toxicological properties: Calculation method.

Physical properties: Based on test data.

Skin irritant/corrosive effect; serious eye damage/eye irritation; skin sensitization	The classification of the mixture is generally based on the calculation method using substance data in accordance with Regulation (EC) No. 1272/2008.
Hazardous to water bodies - long-term (chronic) hazardous to water bodies	

Data sheet issuing department:EHS / Product Safety Department **Date****of previous version:**September 19, 2023 **Version number of the****previous version:**2 **Abbreviations and acronyms:**

ADR: Accord relative to 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 Harmonized System of Classification and Labeling 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 irritant/corrosive effect - Category 2

Eye Irrit. 2: Severe eye damage/eye irritation - Category 2 Skin Sens.

1: Skin sensitization - Category 1

Aquatic Chronic 2: Hazardous to water bodies - long-term hazardous to water bodies - Category 2

Aquatic Chronic 3: Hazardous to water bodies - long-term hazardous to water bodies - Category 3

*** Data changed compared to the previous version**

This document supersedes all previous versions. The information in this safety data sheet reflects our current knowledge and complies with national and EU legislation. However, the user's specific working conditions are beyond our knowledge and control. The product may not be used for any purpose other than that specified in Section 1 without written authorization. The user is responsible for complying with all applicable legal regulations.

The information in this safety data sheet describes the safety requirements of our product and does not constitute a guarantee of product properties. We accept no liability for errors in the printed form.



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* Section 1: Identification of the substance or mixture and of the company

1.1 Product identifier

Trade name: 2K FLOOR COATING COMP B

Article number: 7760

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Technical function: Coating agent

1.3 Details of the supplier providing the safety data sheet Manufacturer/

Supplier:

Remmers GmbH
Bernhard-Remmers-Str. 13
49624 Lönigen
Tel.: 05432/83-0
Fax: 05432/3985

Information provided by:

Product Safety Department: Tel.: 05432/83 -138 or -335 or -509
Email: ehs@remmers.de

1.4 Emergency number:

Poison Control Center North - 24-hour hotline: +49(0)551 - 19240
Poison Control Center Austria - 24-hour hotline: +43(0)1 406 43 43

24-hour transport emergency contact phone
number: within Germany: 0800 181 7059
within USA and Canada: 1-800-424-9300
outside USA and Canada: 001-703-527-3887

* Section 2: Potential Dangers

2.1 Classification of the substance or mixture Classification

according to Regulation (EC) No 1272/2008:

Skin Irrit. 2 H315 Causes skin irritation. H319 Causes
Eye Irrit. 2 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 Identification elements

Labelling in accordance with Regulation (EC) No 1272/2008:

The product is classified and labelled in accordance with the CLP Regulation.

Hazard pictograms:



GHS07 GHS09

Signal word: Danger

Hazard-determining components for labeling:

Reaction product: Bisphenol-A-epichlorohydrin; epoxy resin (average number mean molecular weight) ≤ 700) Bisphenol-F-epichlorohydrin resins MG < 700

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Hazard warnings:

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P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children.

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards
Results of the PBT and vPvB assessment
PBT:Not applicable.**vPvB:**Not applicable.**Determination of endocrine-damaging properties**Not applicable.
*** Section 3: Composition/Information on ingredients**
3.2 Mixtures
Description:modified epoxy resin
Hazardous ingredients [% w/w]:

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CAS: 28064-14-4 NLP: 500-006-8 Reg. no.: 01-2119454392-40-XXXX	Bisphenol-F-epichlorohydrin resins MG < 700 Aquatic Chronic 2, H411; Skin irritation. 2, H315; Skin Sens. 1, H317	≥10-<20%
CAS: 2461-15-6 EINECS: 219-553-6 Reg. no.: 01-2119962196-31-XXXX	[[[2-Ethylhexyl]oxy]methyl]oxirane Skin irritation. 2, H315; Skin Sens. 1, H317	≥5-<10%
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Additional information:

The wording of the listed hazard warnings can be found in section 16.

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Section 4: First Aid Measures

4.1 Description of first aid measures General information:

If symptoms occur or in case of doubt, seek medical advice. Do not administer by mouth if unconscious.

After inhalation:

Take the affected person outside to fresh air and keep them calm. Ensure plenty of fresh air and, as a precaution, consult a doctor. If unconscious, position and transport the person in the recovery position.

After skin contact: Wash immediately with soap and water and rinse thoroughly.

After eye contact:

Rinse eyes under running water for several minutes with eyelids open. Consult a doctor if symptoms persist.

After swallowing: Seek medical advice immediately.

4.2 Most important acute and delayed symptoms and effects: Irritating effect on skin and eyes.

4.3 Indications of immediate medical assistance or special treatment: symptomatic treatment

Section 5: Firefighting measures

5.1 Extinguishing agents

Suitable extinguishing agents:

foam

Water spray jet

Water mist

Dry chemicals, carbon dioxide, sand, or earth are only suitable for small fires. Adapt firefighting measures to the surrounding environment.

5.2 Special hazards arising from the substance or mixture:

Carbon monoxide (CO) can be released in a fire.

Under certain fire conditions, traces of toxic substances cannot be ruled out, such as hydrogen chloride (HCl).

5.3 Instructions for firefighting Special protective equipment:

Wear self-contained breathing apparatus. Wear a full protective suit.

More information

Cool vulnerable containers with a water spray jet.

Fire residues and contaminated extinguishing water must be disposed of in accordance with official regulations.

Collect contaminated firefighting water separately; it must not enter the sewer system.

* Section 6: Measures in case of accidental release

6.1 Personal precautions, protective equipment and procedures to be used in emergencies:

Ensure adequate ventilation.

6.2 Environmental protection measures:

Do not allow to enter the subsoil/soil.

Do not allow to enter sewers or waterways. In case of pollution of rivers, lakes or sewage pipes, notify the relevant authorities in accordance with local laws.

In case of intrusion into waterways or sewers, notify the relevant authorities.

6.3 Methods and materials for containment and cleaning:

Pump out larger quantities, absorb them with absorbent material, rinse off small quantities, dispose of wastewater properly.

Dispose of contaminated material as waste in accordance with section 13.

6.4 Reference to other sections:

For information on safe handling, see section 7. For information on personal protective equipment, see section 8. For information on disposal, see section 13.

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* Section 7: Handling and Storage

7.1 Protective measures for safe handling: Use only in well-ventilated areas.

7.2 Conditions for safe storage, taking into account incompatibilities: Storage:

Requirements for storage rooms and containers: Store only in the original container. **Storage instructions:** Store separately from food. **Further information on storage conditions:** Store the container in a well-ventilated place. Protect from frost.

Keep the container tightly closed.

Storage class (TRGS 510): 10

Classification according to the German Ordinance on Industrial Safety and Health (BetrSichV):-

* Section 8: Exposure Limitation and Control/Personal Protective Equipment

8.1 Parameters to be monitored

Components with workplace-related limit values that must be monitored:	
CAS: 2461-15-6 [[(2-Ethylhexyl)oxy]methyl]oxirane	
MAK	See section IVe

Additional information: The lists valid at the time of their creation served as the basis.

8.2 Limiting and monitoring exposure

Suitable technical control devices: Use only in well-ventilated areas. **Individual protective measures, for example personal protective equipment. General protective and hygiene measures:**

Do not eat, drink, smoke, or use snuff at work. Protect your skin with a skin protectant ointment.

Keep away from food, drinks, and animal feed. Remove contaminated clothing immediately.

Wash your hands before breaks and at the end of the workday. Avoid contact with eyes and skin.

The following information regarding personal protective equipment (PPE) is to be understood as a suggestion. The selection of necessary PPE must be assessed by the employer based on the tasks to be performed and the local conditions. If the on-site risk assessment determines that there is no danger to the employee, the wearing of PPE can be waived or the scope of the PPE adjusted accordingly.

Respiratory protection: Not necessary with good room ventilation.

Hand protection

Impermeable gloves. Gloves with long cuffs. Protective gloves.

The glove material must be impermeable and resistant to the product / fabric / preparation.

Selection of glove material taking into account breakthrough times, permeation rates and degradation.

Glove material:

Butyl rubber

For example, Butoject from KCL, chemical protection gloves made of pure butyl rubber or nitrile rubber.

For example, Tricotril from KCL. Layer thickness 1.5 mm; permeation depends on usage conditions, according to manufacturer's specifications after a maximum of 480 minutes (DIN EN 374). Alternatively, other gloves that correspond to category 3 according to EN 374. The instructions of TRGS 401 and DGUV Information 212-007 must be observed.

Choosing the right glove depends not only on the material but also on other quality characteristics, and varies from manufacturer to manufacturer. Since the product is a combination of several materials, the durability of glove materials is unpredictable and must therefore be tested before use.

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Penetration time of the glove material:

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

The exact penetration time can be obtained from the manufacturer or supplier. **Eye/face protection**

Face shield.

Tightly sealing safety goggles according to EN 166. **Body**

protection: Workwear protective clothing. **Limiting and monitoring environmental exposure**

Use suitable containers to prevent environmental contamination. Prevent entry into sewers or surface and groundwater.

Information on limiting and monitoring environmental exposure can be found in section 6.

* Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General information

State of matter	Fluid
Color	Yellowish.
Odor:	aromatic
Odor threshold:	Not determined
Melting point/freezing point: Boiling point or initial boiling point and boiling range	Not determined.
Flammability	> 105 °C
Lower and upper explosion limits: lower:	Not applicable.
upper:	Not determined.
Flash point:	Not determined.
Ignition temperature	84 °C
Decomposition temperature:	not applicable.
PH value:	Not determined.
Viscosity:	Not determined.
Kinematic viscosity dynamically at 20 °C:	200 mPas
Solubility	
Water:	Not or only slightly miscible.
Distribution coefficient n-octanol/water (log value)	pure epoxy resin
Vapor pressure:	Not determined.
Density and/or relative density.	
Density at 20 °C:	1.11 g/cm ³
Relative density:	Not determined.
Vapor density:	Not determined.

9.2 Other information:

Look:	Fluid
Form:	
Important information regarding health and environmental protection as well as safety.	
Explosive properties:	The product is not explosive. < 3%
Solvent separation test:	
Organic solvents:	10.5%
Change of state	
Evaporation rate:	Not determined.

Information on physical hazard classes:
Explosive substances/mixtures and articles containing explosives

Not applicable.

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Flammable gases	Not applicable.
Aerosols	Not applicable.
Oxidizing gases	Not applicable.
Gases under pressure	Not applicable.
Flammable liquids	Not applicable.
Flammable solids	Not applicable.
Self-reactive substances and mixtures	Not applicable.
Pyrophoric liquids	Not applicable.
Pyrophorous solids	Not applicable.
Self-heating substances and mixtures; substances and mixtures that emit flammable gases in contact with water; oxidizing liquids	Not applicable.
Oxidizing solids	Not applicable.
Organic peroxides	Not applicable.
Substances and mixtures that are corrosive to metals	Not applicable.
Desensitized substances/mixtures and articles containing explosives	Not applicable.

Section 10: Stability and Reactivity

10.1 Reactivity: No further relevant information is available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition occurs when stored and handled as intended.

10.3 Possibility of dangerous reactions: Reactions with strong oxidizing agents.

10.4 Conditions to be avoided: No further relevant information is available.

10.5 Incompatible materials: No further relevant information is available.

10.6 Hazardous decomposition products:

None when used as intended. None when stored correctly.

* Section 11: Toxicological Information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity:

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

LD/LC50 values relevant for classification:		
CAS: 25068-38-6 Reaction product: Bisphenol-A-epichlorohydrin; epoxy resin (average number mean of molecular weight) ≤ 700)		
Orally	LD50	> 10,000 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)

Corrosive/irritating effect on the skin: Causes skin irritation.

Severe eye damage/irritation: Causes serious eye irritation. **Sensitization of the respiratory tract/skin:** May cause allergic skin reactions. **Germ cell mutagenicity:** Based on the available data, the classification criteria are not met. **Carcinogenicity:** Based on the available data, the classification criteria are not met. **Reproductive toxicity:** Based on the available data, the classification criteria are not met. **Specific target organ toxicity after a single exposure:** Based on the available data, the classification criteria are not met. **Specific target organ toxicity upon repeated exposure:** Based on the available data, the classification criteria are not met. **Risk of aspiration:** Based on the available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine-damaging properties
None of the ingredients are included.

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* Section 12: Environmental Information

12.1 Toxicity

Aquatic toxicity: No further relevant information is available.**12.2 Persistence and degradability:** No further relevant information is available.**12.3 Bioaccumulation potential:** No further relevant information is available.**12.4 Mobility in the soil:** No further relevant information is available.

12.5 Results of the PBT and vPvB assessment

PBT: Not applicable.**vPvB:** Not applicable.

12.6 Endocrine-damaging properties

The product contains no substances with endocrine-disrupting properties.

12.7 Other harmful effects: No further relevant information is available. **Remark:** Toxic to fish. **Further ecological information: General information:**

according to AwSV

Water hazard class (WGK) 2: significantly hazardous to water

Do not allow to enter groundwater, bodies of water, or sewers. Even small amounts leaking into the ground can pose a risk to drinking water. Also toxic to fish and plankton in bodies of water.

Toxic to aquatic organisms

Section 13: Disposal Instructions

13.1 Waste treatment procedures

The waste codes listed are a recommendation based on the intended use of this product.

Depending on the specific use and disposal conditions at the user's site, other waste codes may apply. Cured material can be disposed of as construction waste.

European Waste Catalogue:

08 01 11* | Paint and varnish waste containing organic solvents or other hazardous substances

Uncleaned packaging:

Recommendation:

Disposal in accordance with official regulations.

The packaging can be reused or recycled after cleaning.

* Section 14: Information on transport

14.1 UN number or ID number ADR, IMDG, IATA

Not applicable.

14.2 Proper UN shipping designation: ADR, IMDG, IATA

Not applicable.

14.3 Transport hazard classes:

ADR, ADN, IMDG, IATA Class

Not applicable.

14.4 Packaging group: ADR, IMDG, IATA

Not applicable.

14.5 Environmental hazards:

Marine pollutant:

Yes

14.6 Special precautions for the user:

Not applicable.

14.7 Shipping of bulk cargo by sea in accordance with IMO instruments

Not applicable.

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Transport/further details:	
ADR	
Remarks:	In packaging ≤ 5 L/Kg not classified as dangerous goods.
IMDG	
Remarks:	In packaging ≤ 5 L/Kg not classified as dangerous goods.
IATA	
Remarks:	In packaging ≤ 5 L/Kg not classified as dangerous goods.
UN "Model Regulation":	Not applicable.

* Section 15: Legal Regulations

15.1 Safety, health and environmental protection regulations/specific legislation for the substance or mixture

Directive 2012/18/EU

Dangerous substances listed by name - ANNEX I: None of the ingredients are included.

Seveso category: E2 Hazardous to the water

Quantity threshold (in tonnes) for use in lower class establishments: 200 t **Quantity threshold (in tonnes) for use in upper class establishments:** 500 t **REGULATION (EC) No 1907/2006 ANNEX XVII** Restriction conditions: 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 are included.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED PRECIOUS MATERIALS FOR EXPLOSIVES (Upper concentration limit for an authorisation under Article 5(3))

None of the ingredients are included.

Annex II - Notifiable Precursors for Explosives

None of the ingredients are included.

National regulations: Technical

Instructions on Air Quality Control:

Class	Percentage
NK	≥5-<10

Water hazard class: WGK 2:

significantly hazardous to water.
according to AwSV

Other regulations, restrictions and prohibitions APME document: "Epoxy resins and hardeners. Toxicology, occupational safety, environment" **BG information sheet:**

DGUV Rule 113-012 (BGR 227) "Activities with epoxy resins" M
004 (BGI 595) "Irritants/corrosive substances"

15.2 Chemical safety assessment: A chemical safety assessment was not carried out.

* Section 16: Other information

The information provided is based on our current knowledge; however, it does not constitute a guarantee of product characteristics and does not establish a legally binding contractual relationship. Please refer to the respective "Technical Data Sheets" for delivery specifications.

Relevant sentences:

H315 Causes skin irritation.
H317 May cause allergic skin reactions. Causes
H319 serious eye irritation.
H411 Toxic to aquatic life with long-lasting effects. Harmful to
H412 aquatic life with long-lasting effects.
EUH205 Contains epoxy compounds. May produce an allergic reaction.

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Classification according to Regulation (EC) No

1272/2008 Toxicological properties: Calculation method.

Physical properties: Based on test data.

Skin irritant/corrosive effect; serious eye damage/eye irritation; skin sensitization Hazardous to water bodies - long-term (chronic) hazardous to water bodies	The classification of the mixture is generally based on the calculation method using substance data in accordance with Regulation (EC) No. 1272/2008.
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Data sheet issuing department:EHS / Product Safety Department **Date**

of previous version:September 19, 2023 **Version number of the**

previous version:2 **Abbreviations and acronyms:**

ADR: Accord relative to 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 Harmonized System of Classification and Labeling 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 irritant/corrosive effect – Category 2

Eye Irrit. 2: Severe eye damage/eye irritation – Category 2 Skin Sens.

1: Skin sensitization – Category 1

Aquatic Chronic 2: Hazardous to water bodies - long-term hazardous to water bodies – Category 2

Aquatic Chronic 3: Hazardous to water bodies - long-term hazardous to water bodies – Category 3

* Data changed compared to the previous version

This document supersedes all previous versions. The information in this safety data sheet reflects our current knowledge and complies with national and EU legislation. However, the user's specific working conditions are beyond our knowledge and control. The product may not be used for any purpose other than that specified in Section 1 without written authorization. The user is responsible for complying with all applicable legal regulations.

The information in this safety data sheet describes the safety requirements of our product and does not constitute a guarantee of product properties. We accept no liability for errors in the printed form.