

Page 1/10

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 19.06.2023 Version number 5 (replaces version 4) Revision: 13.12.2022

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

1.1 Product identifier

Trade name EPOXY SIC COLOR ESD KOMP A

Article number: 6838

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 Remmers (UK) Limited
Bernhard-Remmers-Str. 13 Unit 4 , Lloyds Court

D-49624 Löningen / Germany Manor Royal, Crawley – West Sussex RH10 9QU

Tel.: +49(0)5432/83-0 fon +44 (0) 1293 594 010 Fax: +49(0)5432/3985 fax +44 (0) 1293 594 037

Information department:

Product Safety department: Phone: +44 (0) 1293 594 010

Email: sales@remmers.co.ukk

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.

STOT RE 2 H373 May cause damage to the lung through prolonged or repeated exposure.

Route of exposure: Inhalation.

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







GHS07 GHS08 GHS09

Signal word Warning

Hazard-determining components of labelling:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) quartz flour

(Contd. on page 2)

according to 1907/2006/EC, Article 31

Version number 5 (replaces version 4) Printing date 19.06.2023 Revision: 13.12.2022

Trade name EPOXY SIC COLOR ESD KOMP A

(Contd. of page 1)

bisphenol F-(epichlorhydrin); epoxy resin(number average molecular weight<700) oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

1,6-Bis(2,3-epoxypropoxy)hexan

pentaerythritol triacrylate pentaerythritol tetraacrylate hexamethylene diacrylate

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eve irritation.

H317 May cause an allergic skin reaction.

H373 May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapours/spray. P261 P264 Wash contaminated body parts thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P302+P352 IF ON SKIN: Wash with plenty of 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.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

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

international regulations.

Additional information:

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

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

Dangerous components [% w/w]:		
CAS: 25068-38-6 NLP: 500-033-5 Index number: 603-074-00-8 Reg.nr.: 01-2119456619-26- XXXX	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH205 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 5% Eye Irrit. 2; H319: C ≥ 5 %	≥25-<30%
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	≥5-<10%

(Contd. on page 3)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 19.06.2023 Version number 5 (replaces version 4)

Trade name EPOXY SIC COLOR ESD KOMP A

		(Contd. of page 2)
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119489379-17- XXXX	titanium dioxide Carc. 2, H351	≥5-<10%
CAS: 68609-97-2 EINECS: 271-846-8 Index number: 603-103-00-4 Reg.nr.: 01-2119485289-22- XXXX	oxirane, mono[(C12-14-alkyloxy)methyl] derivs. Skin Irrit. 2, H315; Skin Sens. 1, H317	≥2.5-<5%
CAS: 14808-60-7 EINECS: 238-878-4 Reg.nr.: 01-2120770509-45- XXXX	quartz flour STOT RE 1, H372	≥1-<2.5%
CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5 Reg.nr.: 01-2119492630-38- XXXX	benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H332	≥1-<2.5%
CAS: 16096-31-4 EINECS: 240-260-4 Reg.nr.: 01-2119463471-41- XXXX	1,6-Bis(2,3-epoxypropoxy)hexan Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥0.5-<1%
CAS: 4986-89-4 EINECS: 225-644-1 Index number: 607-122-00-9	pentaerythritol tetraacrylate Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	≥0.5-<1%
CAS: 108-83-8 EINECS: 203-620-1 Index number: 606-005-00-X Reg.nr.: 01-2119474441-41- XXXX	2,6-dimethylheptan-4-one Flam. Liq. 3, H226; STOT SE 3, H335 Specific concentration limit: STOT SE 3; H335: C ≥10 %	≥0.25-≤0.5%
CAS: 3524-68-3 EINECS: 222-540-8 Index number: 607-110-00-3	pentaerythritol triacrylate Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	≥0.1-<0.25%
CAS: 13048-33-4 EINECS: 235-921-9 Index number: 607-109-00-8	hexamethylene diacrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	≥0.1-≤0.25%

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.

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.

After skin contact

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 Seek immediate medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

symptomatic treatment

(Contd. on page 4)

Revision: 13.12.2022

according to 1907/2006/EC, Article 31

Printing date 19.06.2023 Version number 5 (replaces version 4)

Trade name EPOXY SIC COLOR ESD KOMP A

(Contd. of page 3)

Revision: 13.12.2022

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)

5.3 Advice for firefighters

Protective equipment:

Wear full protective suit.

Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies.

Inform responsible authorities in case product reaches bodies of water or sewage system.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaust in workplaces.

Avoid the formation of aerosols.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and containers: Prevent any penetration into the ground.

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:
CAS: 13463-67-7 titanium dioxide

WEL Long-term value: 10* 4** mg/m³ *total inhalable **respirable

CAS: 108-83-8 2,6-dimethylheptan-4-one

WEL Long-term value: 148 mg/m³, 25 ppm

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.

(Contd. on page 5)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 19.06.2023 Version number 5 (replaces version 4) Revision: 13.12.2022

Trade name EPOXY SIC COLOR ESD KOMP A

(Contd. of page 4)

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 evalutated by the employer depending on the types of operations and the local circumstances. If a risk assessment onsite shows that there is no risk for employees, the personal protective euiqment is not required or the amount of the PPE can be adpated accordingly.

Respiratory equipment:

In case vapours/aerosols develop:

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

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

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

Break through time: max. 240 min (DIN EN 374).

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection Tightly sealed safety glasses.

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: According to product specification

Odour: Characteristic
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:
Upper:
Not determined.
Plash point:
Ignition temperature:
Decomposition temperature:
Not determined.
Not determined.
Not determined.
Not determined.
Not determined.

Viscosity:

Kinematic viscosity dynamic at 20 °C:Not determined.
5,700 mPas

Solubility

Water: Not miscible or difficult to mix

Partition coefficient n-octanol/water (log value) Not determined. Vapour pressure: Not determined.

Density and/or relative density

Density at 20 °C: 1.7 g/cm³
Relative density Not determined.

(Contd. on page 6)

according to 1907/2006/EC, Article 31

Printing date 19.06.2023 Version number 5 (replaces version 4) Revision: 13.12.2022

Trade name EPOXY SIC COLOR ESD KOMP A

(Contd. of page 5)

	(Conta. or page 5)
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:	1.7 %
VOC EU	
Solid content:	59.7 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard	
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
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 used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

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

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

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)

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.

(Contd. on page 7)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 19.06.2023

Version number 5 (replaces version 4)

Trade name EPOXY SIC COLOR ESD KOMP A

(Contd. of page 6)

Revision: 13.12.2022

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:

May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

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: 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: 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

Disposal of the product as well as product-containing waste and packaging must comply with the applicable national or EC regulations.

The given refuse codes are recommendations based upon the intended use of the product. Because of special use and disposal conditions at the user's, other codes may apply under other conditions.

European waste catalogue

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

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

Packaging can be reused or recycled after cleaning.

SECTION 14: Transport information

14.1 UN number or ID number ADR, IMDG, IATA	UN3082
14.2 UN proper shipping name	
ADR	3082 ENVIRONMENTALLY HAZARDOUS
	SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
	LIQUID, N.O.S. (epoxy resin), MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
	LIQUID, N.O.S. (epoxy resin)

(Contd. on page 8)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 19.06.2023

Version number 5 (replaces version 4) Revision: 13.12.2022

Trade name EPOXY SIC COLOR ESD KOMP A

(Contd. of page 7)

	(Contd. of page 7)
14.3 Transport hazard class(es)	
ADR	
Class	9 (M6) Miscellaneous hazardous substances and articles.
Label	9
IMDG	
Class Label	Miscellaneous hazardous substances and articles. 9
IATA	
Class Label	9 Miscellaneous hazardous substances and articles.9
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards:	
Marine pollutant:	Yes Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous hazardous substances and
harand the stiff of the second of	articles.
hazard identification number: EMS Number:	90 F-A,S-F
Stowage Category	A
14.7 Maritime transport in bulk according t	
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 niner packaging: 30 ml
Transport category	3
Tunnel restriction code	(-)
IMDG	
Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1
Exocpted qualitities (Ed.)	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), 9, III

(Contd. on page 9)

according to 1907/2006/EC, Article 31

Printing date 19.06.2023

Version number 5 (replaces version 4)

Trade name EPOXY SIC COLOR ESD KOMP A

(Contd. of page 8)

Revision: 13.12.2022

SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category E2 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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

None of the ingredients is listed.

REGULATION (EU) 2019/1148

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

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship. Delivery specifications are found in the respective Technical Information Sheets.

Relevant phrases

H226		
	Flammable liquid and vapour.	

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

Causes serious eye damage. H318

Causes serious eye irritation. H319

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

Causes damage to organs through prolonged or repeated exposure. H372

Toxic to aquatic life with long lasting effects. H411

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: 20.08.2020 Version number of previous version: 4

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. 3: Flammable liquids - Category 3

Acute Tox. 4: Acute toxicity - Category 4

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

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

(Contd. on page 10)

Page 10/10

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 19.06.2023

Version number 5 (replaces version 4)

Trade name EPOXY SIC COLOR ESD KOMP A

(Contd. of page 9)

Revision: 13.12.2022

Skin Sens. 1: Skin sensitisation - Category 1

Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – 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