

Page 1/9

# Safety data sheet

# according to 1907/2006/EC, Article 31

Printing date 14.12.2022 Version number 5 (replaces version 4) Revision: 14.12.2022

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

#### 1.1 Product identifier

# Trade name Epoxy ESD Color 3K, Comp. B

**Article number: 6666, 6668** 

# 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 +44 (0) 1293 594 037

Information department:

Fax: +49(0)5432/3985

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

Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H332 Harmful if inhaled.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage. Skin Sens. 1 H317 May cause an allergic skin reaction.

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**





GHS05 GHS07

#### Signal word Danger

# Hazard-determining components of labelling:

benzyl alcohol

m-phenylenebis(methylamine)

(Contd. on page 2)

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

Printing date 14.12.2022 Version number 5 (replaces version 4) Revision: 14.12.2022

# Trade name Epoxy ESD Color 3K, Comp. B

(Contd. of page 1)

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Reaktionprodukte von 3-Aminomethyl-3,5,5-trimethylcyclohexylamin und 4,4'-Isopropylidendiphenol, oligomerisches Reaktionprodukt mit 1-Chlor-2,3-epoxypropan

1-ethyl-3-methylimidazolium dicyanamide

#### **Hazard statements**

H302+H332 Harmful if swallowed or if inhaled.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

P260 Do not breathe dusts or mists.

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

protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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: 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	≥30-<40%
CAS: 1477-55-0 EINECS: 216-032-5 Reg.nr.: 01-2119480150-50- XXXX	m-phenylenebis(methylamine) Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412, EUH071	≥10-<20%
CAS: 2855-13-2 EINECS: 220-666-8 Index number: 612-067-00-9 Reg.nr.: 01-2119514687-32- XXXX	3-aminomethyl-3,5,5-trimethylcyclohexylamine Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1A, H317 ATE: LD50 oral: 1,030 mg/kg Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	≥10-<20%
CAS: 38294-64-3 NLP: 500-101-4 Reg.nr.: 01-2119965165-33- XXXX	Reaktionprodukte von 3-Aminomethyl-3,5,5-trimethylcyclohexylamin und 4,4'-lsopropylidendiphenol, oligomerisches Reaktionprodukt mit 1-Chlor-2,3-epoxypropan Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥10-<20%
CAS: 370865-89-7	1-ethyl-3-methylimidazolium dicyanamide Skin Sens. 1, H317	≥5-<10%

Additional information For the wording of the listed hazard phrases refer to section 16.

(Contd. on page 3)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.12.2022

Version number 5 (replaces version 4)

# Trade name Epoxy ESD Color 3K, Comp. B

(Contd. of page 2)

Revision: 14.12.2022

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

#### **General information**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### 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. Then consult doctor.

#### After swallowing

Call a doctor immediately.

Call a doctor immediately.

Drink plenty of water and provide fresh air. Call a doctor immediately.

#### 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

# 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

Formation of poisonous gases during heating or in fires.

#### 5.3 Advice for firefighters

## **Protective equipment:**

Wear full protective suit.

Put on breathing apparatus.

**Additional information** 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

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).

Use neutralising agent.

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Use only in well ventilated areas.

Ensure good ventilation/exhaust in workplaces.

Avoid the formation of aerosols.

Information about protection against explosions and fires: Keep breathing equipment ready.

(Contd. on page 4)

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

Printing date 14.12.2022 Version number 5 (replaces version 4) Revision: 14.12.2022

# Trade name Epoxy ESD Color 3K, Comp. B

(Contd. of page 3)

# 7.2 Conditions for safe storage, including any incompatibilities

Storage

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

Information on storage in a common storage facility: none

Further information about storage conditions: Keep container tightly closed.

# \* SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

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

The product does not contain any relevant quantities of materials with limit values that have to be monitored at the workplace.

Additional information: The lists that were valid during compilation were used as a basis.

#### 8.2 Exposure controls

Appropriate engineering controls No further data; see item 7.

Individual protection measures, such as personal protective equipment

#### General protective and hygienic measures

Do not eat, drink or smoke while working.

Use skin protection cream for preventive skin protection.

Keep away from food, beverages and animal feed.

Immediately remove soiled, saturated clothing.

Wash hands before pauses and after work.

Avoid contact with eyes and skin.

The following indication regarding the personal protective equipment are to be considered as suggestions. The selection of the necessary personal protective equipment is to be evaluated by the employer depending on the types of operations and the local circumstances. If a risk assessment onsite shows that there is no risk for employees, the personal protective euiqment is not required or the amount of the PPE can be adpated accordingly.

#### Respiratory equipment:

Filter ABEK

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

Butyl rubber, BR

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

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

Eye/face protection Tightly sealed safety glasses.

Body protection: Protective work clothing.

## SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

**General Information** 

Physical state Fluid
Colour: Clear

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.12.2022 Version number 5 (replaces version 4) Revision: 14.12.2022

# Trade name Epoxy ESD Color 3K, Comp. B

(Contd. of page 4)

Odour:Amine-likeOdour threshold:Not determined.Melting point/freezing point:Not determined

Boiling point or initial boiling point and boiling

**range**Flammability
Not determined
Not applicable.

Lower and upper explosion limit

**Lower:** 1.3 Vol % **Upper:** 13 Vol %

Flash point: >100 °C (DIN 51758)
Ignition temperature: not applicable
Decomposition temperature: Not determined.

**pH** > 8

Viscosity:

**Kinematic viscosity dynamic at 20 °C:**Not determined.
106 mPas

Solubility

Water: Not miscible or difficult to mix

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

Vapour pressure at 20 °C: 0.1 hPa

Density and/or relative density

Density at 20 °C:

Relative density

Vapour density

1.06 g/cm³ (ISO 2811)

Not determined.

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 %

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

## **SECTION 10: Stability and reactivity**

**Desensitised explosives** 

Void

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.12.2022

Version number 5 (replaces version 4)

# Trade name Epoxy ESD Color 3K, Comp. B

(Contd. of page 5)

Revision: 14.12.2022

#### 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 Strong exothermic reaction with acids

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products:

Corrosive gases/vapours

Ammonia

# **SECTION 11: Toxicological information**

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

Acute toxicity: Harmful if swallowed or if inhaled.

LD/LC50 values that are relevant for classification:				
CAS: 100-51-6 benzyl alcohol				
Oral	LD50	1,620 mg/kg (rat)		
Dermal	LD50	>2,000 mg/kg (rabbit)		
CAS: 1477-55-0 m-phenylenebis(methylamine)				
Oral	LD50	930 mg/kg (rat)		
Dermal	LD50	>3,100 mg/kg (rabbit)		
CAS: 2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine				
Oral	LD50	1,030 mg/kg (ATE)		
		1,030 mg/kg (rat)		
Dermal	LD50	1,840 mg/kg (rabbit)		

**Skin corrosion/irritation:** Causes severe skin burns and eye damage.

Serious eye damage/irritation: Causes serious eye damage.

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: 1477-55-0 m-phenylenebis(methylamine)

EC50/48h 15.2 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: Harmful to fish

#### Additional ecological information:

## **General notes:**

Do not allow undiluted or non-neutralised product to reach the sewage system or receiving waters.

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

(Contd. on page 7)

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

Printing date 14.12.2022 Version number 5 (replaces version 4) Revision: 14.12.2022

# Trade name Epoxy ESD Color 3K, Comp. B

(Contd. of page 6)

Hazardous to drinking water even if small quantities leak into soil. Harmful to aquatic organisms

## **SECTION 13: Disposal considerations**

#### Recommendation

Must be specially treated in compliance with official 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.

Γ	European waste catalogue	
	08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
	20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27

#### **Uncleaned packaging:**

#### **Recommendation:**

Disposal must be made according to official regulations.

Packaging can be reused or recycled after	Packaging can be reused or recycled after cleaning.		
* SECTION 14: Transport informatio	SECTION 14: Transport information		
14.1 UN number or ID number ADR, IMDG, IATA	UN2735		
14.2 UN proper shipping name ADR IMDG, IATA	2735 AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), 3-aminomethyl-3,5,5-trimethylcyclohexylamine) AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), 3-aminomethyl-3,5,5-trimethylcyclohexylamine)		
14.3 Transport hazard class(es)			
ADR			
Class Label	8 (C7) Corrosive substances. 8		
IMDG, IATA			
Class Label	8 Corrosive substances. 8		
14.4 Packing group ADR, IMDG, IATA	II		
14.5 Environmental hazards: Marine pollutant:	- No		
14.6 Special precautions for user hazard identification number: EMS Number: Segregation groups Stowage Category Segregation Code	Warning: Corrosive substances. 80 F-A,S-B (SGG18) Alkalis A SG35 Stow "separated from" SGG1-acids		

(Contd. on page 8)

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

according to 1907/2006/EC, Article

Printing date 14.12.2022 Version number 5 (replaces version 4) Revision: 14.12.2022

# Trade name Epoxy ESD Color 3K, Comp. B

(Contd. of page 7)

14.7 Maritime transport in bulk according IMO instruments	ng to Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
,	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (M-
_	PHENYLENEBIS (METHYLAMINE), 3-
	AMINOMETHYL-3,5,5-
	TRIMETHYLCYCLOHEXYLAMINE), 8, II

# **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. 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

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

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

(Contd. on page 9)

Page 9/9

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

Printing date 14.12.2022

Version number 5 (replaces version 4) Revision: 14.12.2022

# Trade name Epoxy ESD Color 3K, Comp. B

(Contd. of page 8)

Department issuing data specification sheet: Product Safety department / EHS

Date of previous version: 19.07.2021 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

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1A: Skin sensitisation - Category 1A

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3