

Revision: 13.12.2022

Page 1/8

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

Printing date 13.12.2022

Version number 7 (replaces version 6)

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

1.1 Product identifier

Trade name PCB Coat EP 2K (PCB Barrier Layer EP 2K), Komp. A

Article number: 1461, 1463

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

Product category PC9a Coatings and paints, thinners, paint removers

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

fon +44 (0) 1293 594 010 fax +44 (0) 1293 594 037

Fax: +49(0)5432/3985
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

Eye Dam. 1 H318 Causes serious eye damage.

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

Signal word Danger

Hazard-determining components of labelling:

Linseed oil polymer with bisphenol A, bisphenol A diglycidyl ether, diethylenetriamine, formaldehyde, glycidyl Ph ether and pentaethylenehexamine

Hazard statements

H318 Causes serious eye damage.

Precautionary statements

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

protection.

(Contd. on page 2)

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

Printing date 13.12.2022 Version number 7 (replaces version 6) Revision: 13.12.2022

Trade name PCB Coat EP 2K (PCB Barrier Layer EP 2K), Komp. A

(Contd. of page 1)

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.

Additional information:

EUH208 Contains Fatty acids, sunflower-oil, conjugated, maleated, reation products with diethanolamine, maleated tall-oil fatty acids and triethanolamine, 2,2'-iminodiethylamine, 3,6,9-triazaundecamethylenediamine, 3,6,9,12-tetra-azatetradecamethylenediamine. May produce an allergic reaction.

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: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119489379-17- XXXX	titanium dioxide Carc. 2, H351	≥20-<30%	
CAS: 68915-81-1	Linseed oil polymer with bisphenol A, bisphenol A diglycidyl ether, diethylenetriamine, formaldehyde, glycidyl Ph ether and pentaethylenehexamine Eye Dam. 1, H318; Skin Irrit. 2, H315	≥5-<10%	
CAS: 1415316-96-9 EC number: 800-003-4 Reg.nr.: 01-2120770262-59- XXXX	Fatty acids, sunflower-oil, conjugated, maleated, reation products with diethanolamine, maleated tall-oil fatty acids and triethanolamine Repr. 2, H361fd; Skin Sens. 1, H317	≥0.1-≤0.25%	
CAS: 111-40-0 EINECS: 203-865-4 Index number: 612-058-00-X Reg.nr.: 01-2119473793-27- XXXX	2,2'-iminodiethylamine Acute Tox. 2, H330; Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; STOT SE 3, H335	≥0.1-≤0.25%	
CAS: 112-57-2 EINECS: 203-986-2 Index number: 612-060-00-0	3,6,9-triazaundecamethylenediamine Skin Corr. 1B, H314; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	≥0.1-<0.25%	
CAS: 4067-16-7 EINECS: 223-775-9 Index number: 612-064-00-2 Reg.nr.: 01-2119485826-22- XXXX	3,6,9,12-tetra-azatetradecamethylenediamine Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317	≥0.1-<0.25%	
CAS: 108-31-6 EINECS: 203-571-6 Index number: 607-096-00-9 Reg.nr.: 01-2119472428-31- XXXX	maleic anhydride Resp. Sens. 1, H334; STOT RE 1, H372; Skin Corr. 1B, H314; Acute Tox. 4, H302; Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A;H317: C ≥ 0.001 %	≥0.00025-<0.001%	

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 When symptoms occur or in case of doubt, seek medical advice

(Contd. on page 3)

according to 1907/2006/EC, Article 31

Printing date 13.12.2022 Version number 7 (replaces version 6) Revision: 13.12.2022

Trade name PCB Coat EP 2K (PCB Barrier Layer EP 2K), Komp. A

(Contd. of page 2)

After inhalation Take affected persons into the open air and position comfortably

After skin contact If skin irritation continues, consult a doctor.

After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing Seek immediate medical advice.

- 4.2 Most important symptoms and effects, both acute and delayed Damages cornea and eye lids.
- 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

Water

Fire-extinguishing powder

Foam

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

Nitrous gases

5.3 Advice for firefighters

Protective equipment: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Do not allow to enter the ground/soil.

Dilute with plenty of water.

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.

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: No special requirements.

Information on storage in a common storage facility: none

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

Com	Components with limit values that require monitoring at the workplace:		
CAS:	CAS: 13463-67-7 titanium dioxide		
WEL	Long-term value: 10* 4** mg/m³ *total inhalable **respirable		
CAS:	CAS: 111-40-0 2,2'-iminodiethylamine		
WEL	Long-term value: 4.3 mg/m³, 1 ppm Sk		

according to 1907/2006/EC, Article 31

Printing date 13.12.2022

Version number 7 (replaces version 6)

Trade name PCB Coat EP 2K (PCB Barrier Layer EP 2K), Komp. A

(Contd. of page 3)

Revision: 13.12.2022

CAS: 108-31-6 maleic anhydride WEL Short-term value: 3 mg/m³ Long-term value: 1 mg/m³ Sen

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 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 euigment is not required or the amount of the PPE can be adpated accordingly.

Respiratory equipment:

Filter A/P2.

Only use ambient air independent respiratory equipment in pits, shafts and silos!

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

Chloroprene rubber, CR

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 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: White 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: Not determined. Upper: Not determined. Flash point: > 100 °C

(Contd. on page 5)

according to 1907/2006/EC, Article 31

Version number 7 (replaces version 6) Printing date 13.12.2022 Revision: 13.12.2022

Trade name PCB Coat EP 2K (PCB Barrier Layer EP 2K), Komp. A

(Contd. of page 4)

Ignition temperature: not applicable **Decomposition temperature:** Not determined. Not determined. pН

Viscosity:

Kinematic viscosity Not determined. dvnamic at 20 °C: ca. 2000 mPas

Solubility

Water: Fully miscible Partition coefficient n-octanol/water (log value) Not determined.

Vapour pressure at 20 °C: 23 hPa

Density and/or relative density

Density at 20 °C: ca. 1.5 g/cm³ 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.

Void

Void

Void

Void

Void

Void

Solvent separation test < 3 %

Change in condition

Evaporation rate Not determined.

Information with regard to physical hazard

classes **Explosives** Flammable gases **Aerosols** Oxidising gases Gases under pressure Flammable liquids Flammable solids

Void Self-reactive substances and mixtures Void Pyrophoric liquids Void **Pyrophoric solids** Void Self-heating substances and mixtures Void Substances and mixtures, which emit

flammable gases in contact with water Void **Oxidising liquids** Void Oxidising solids Void Organic peroxides Void Corrosive to metals Void **Desensitised explosives** Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if handled and stored according to specifications.

Avoid: heat, flames, sparks

10.3 Possibility of hazardous reactions 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:

May be released in fire:

Nitrous vitriol gases

(Contd. on page 6)

according to 1907/2006/EC, Article 31

Printing date 13.12.2022

Version number 7 (replaces version 6)

Trade name PCB Coat EP 2K (PCB Barrier Layer EP 2K), Komp. A

(Contd. of page 5)

Revision: 13.12.2022

SECTION 11: Toxicological information

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

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

LD/LC50 values that are relevant for classification: No further relevant information available.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Causes serious eye damage.

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

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: 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

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.

Do not allow undiluted or larger quantities of the product to reach ground water, bodies fo water or sewage system.

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. Not hardened material must be disposed of as hazardous waste according to official regulations. Hardened product remains may be disposed of as building rubble or put into household garbage.

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.

Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Transport information

14.1 UN number or ID number

ADR, ADN, IMDG, IATA Void

(Contd. on page 7)

according to 1907/2006/EC, Article 31

Printing date 13.12.2022

Version number 7 (replaces version 6)

Trade name PCB Coat EP 2K (PCB Barrier Layer EP 2K), Komp. A

(Contd. of page 6)

Revision: 13.12.2022

14.2 UN proper shipping name ADR, ADN, IMDG, IATA 14.3 Transport hazard class(es) ADR, ADN, IMDG, IATA Class Void 14.4 Packing group ADR, IMDG, IATA Void 14.5 Environmental hazards: Marine pollutant: No 14.6 Special precautions for user Not applicable. 14.7 Maritime transport in bulk according to IMO instruments Not a hazardous good according to the above		(Conta. or page o	
ADR, ADN, IMDG, IATA Class Void 14.4 Packing group ADR, IMDG, IATA Void 14.5 Environmental hazards: Marine pollutant: No 14.6 Special precautions for user Not applicable. 14.7 Maritime transport in bulk according to IMO instruments Not a hazardous good according to the above	.	Void	
Class Void 14.4 Packing group ADR, IMDG, IATA Void 14.5 Environmental hazards: Marine pollutant: No 14.6 Special precautions for user Not applicable. 14.7 Maritime transport in bulk according to IMO instruments Not applicable. Transport/Additional information: Not a hazardous good according to the above	14.3 Transport hazard class(es)		
ADR, IMDG, IATA Void 14.5 Environmental hazards: Marine pollutant: No 14.6 Special precautions for user Not applicable. 14.7 Maritime transport in bulk according to IMO instruments Not applicable. Transport/Additional information: Not a hazardous good according to the above	· · · · · · · · · · · · · · · · · · ·	Void	
Marine pollutant: 14.6 Special precautions for user Not applicable. 14.7 Maritime transport in bulk according to IMO instruments Not applicable. Transport/Additional information: Not a hazardous good according to the above		Void	
14.7 Maritime transport in bulk according to IMO instruments Not applicable. Transport/Additional information: Not a hazardous good according to the above	=	No	
IMO instrumentsNot applicable.Transport/Additional information:Not a hazardous good according to the above	14.6 Special precautions for user	Not applicable.	
•	and the contract of the contra		
regulations.	Transport/Additional information:	Not a hazardous good according to the above regulations.	
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.

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

- H312 Harmful in contact with skin.
- Causes severe skin burns and eye damage. H314
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H330 Fatal if inhaled.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled. H334
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- Suspected of damaging fertility. Suspected of damaging the unborn child. H361fd
- Causes damage to organs through prolonged or repeated exposure. H372
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

(Contd. on page 8)

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

Printing date 13.12.2022

Version number 7 (replaces version 6)

Trade name PCB Coat EP 2K (PCB Barrier Layer EP 2K), Komp. A

(Contd. of page 7)

Revision: 13.12.2022

EUH071 Corrosive to the respiratory tract.

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

Department issuing data specification sheet: Product Safety department / EHS

Date of previous version: 08.05.2020 Version number of previous version: 6

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 2: Acute toxicity – Category 2

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

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

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

Resp. Sens. 1: Respiratory sensitisation - Category 1

Skin Sens. 1: Skin sensitisation - Category 1

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

Carc. 2: Carcinogenicity - Category 2

Repr. 2: Reproductive toxicity - Category 2

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

STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2