

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 21.06.2021

Version number 26

Revision: 10.05.2021

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

- **1.1 Product identifier**
- **Trade name: PROTEGOL PU Repair - Standard black comp. A**
- **Article number:** 206463
- **UFI:** PK75-V8N4-TF2U-UU3G
- **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** Polyurethane lacquer
- **Uses advised against** Restriction under Regulation 1907/2006 (REACH), Annex XVII
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
TIB Chemicals AG
Muelheimer Str. 16-22
D-68219 Mannheim /Germany
Tel.: +49 621 8901-700
- **Informing department:**
PRODUKTSERVICE
e-mail: produktservice@tib-chemicals.com
Mo-Fr 9:00 AM – 3:00 PM: Tel.: +49(0)621 8901 710
- **1.4 Emergency telephone number:**
24 h Tel.: +49(0)621 8901 700 Fax.: +49(0)621 8901 900

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SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Repr. 2 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS08

- **Signal word** Warning
- **Hazard-determining components of labelling:**
propylidynetrimethanol

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· Hazard statements

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

· Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

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

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

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 Chemical characterisation: Mixtures

· **Description:** Mixture of the substances listed below and harmless substances.

· Dangerous components:

CAS: 77-99-6 EINECS: 201-074-9	propylidynetrimethanol ⚠️ Repr. 2, H361fd	2.5-5%
CAS: 110-63-4 EINECS: 203-786-5 Reg.nr.: 01-2119471849-20- XXXX	butane-1,4-diol ⚠️ Acute Tox. 4, H302; STOT SE 3, H336	2.5-5%
CAS: 3648-18-8 EINECS: 222-883-3 Reg.nr.: 01-2119979527-19- 0000	diocetyl tin dilaurate Alternative CAS number: 91648-39-4 ⚠️ STOT SE 2, H371	<0.3%

· SVHC

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· **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**· 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 Immediately wash with water and soap and rinse thoroughly.

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- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing** In case of persistent symptoms consult doctor.
- **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**
No further relevant information available.

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**
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Use self-contained breathing apparatus and wear protective suit

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Avoid contact with skin and eyes.
- **6.2 Environmental precautions:**
Inform respective authorities in case product reaches 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**
Store in cool, dry place in tightly closed containers.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
No special measures required.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical systems:**
No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs**

110-63-4 butane-1,4-diol

Dermal	Consumer: long-term systemic effects Worker: long-term systemic effects	8 mg/kg bw/d (human (calculated)) 19 mg/kg bw/d (human (calculated))
Inhalative	Consumer: acute systemic effects Worker: long-term systemic effects	340 mg/m ³ (human (calculated)) 136 mg/m ³ (human (calculated))

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Oral	Consumer: long-term systemic effects	0.0005 mg/kg bw/d (human (calculated))
Inhalative	Consumer: long-term systemic effects Worker: long-term systemic effects	0.0009 mg/m ³ (human (calculated)) 0.0035 mg/m ³ (human (calculated))

· **PNECs**

110-63-4 butane-1,4-diol

Freshwater ecosystem: Freshwater organisms	813 µg/l (Freshwater organisms)
Freshwater ecosystem: Sediment organisms	3.61 mg/kg sedim. dw (Sediment organisms)
Marine ecosystem: Sediment organisms	0.361 mg/kg sedim. dw (Sediment organisms)
Marine ecosystem: Marine water organisms	81.3 µg/l (Marine water organisms)
Sewage treatment plant (STP): Microorganisms	1,544 mg/l (Microorganisms)

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Terrestrial ecosystem: Agricultural soil organisms	0.244 mg/kg soil dw
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Air	mg/m ³ (Atmosphere) No hazard identified
Freshwater ecosystem: Freshwater organisms	µg/l (Freshwater organisms) No hazard identified
Freshwater ecosystem: Sediment organisms	mg/kg sedim. dw (Sediment organisms) No hazard identified
Marine ecosystem: Sediment organisms	mg/kg sedim. dw (Sediment organisms) No hazard identified
Marine ecosystem: Marine water organisms	µg/l (Marine water organisms) No hazard identified
Sewage treatment plant (STP): Microorganisms	mg/l (Microorganisms) No hazard identified
Terrestrial ecosystem: (Worm eating) predators	mg/kg food ((Worm eating) predators) No hazard identified
Terrestrial ecosystem: Agricultural soil organisms	mg/kg soil dw (Agricultural soil organisms) No hazard identified

· Additional information:

The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

· Personal protective equipment

· General protective and hygienic measures

Do not eat or drink while working.

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

· Protection of hands:

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

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.

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Material testing according to the standard CEN / TC 162 / WG 8 - protective gloves
nitrile rubber

Recommended thickness of the material: ≥ 0.4 mm

· **Penetration time of glove material**

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

· **Eye 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**

· **Appearance:**

Form: Fluid

Colour: According to product specification

· **Odour:**

Mild

· **Odour threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Change in condition**

Melting point/freezing point: Not determined

Initial boiling point and boiling range: Not determined

· **Flash point:**

>100 °C

· **Decomposition temperature:**

Not determined.

· **Self-inflammability:**

Product is not selfigniting.

· **Explosive properties:**

Product is not explosive.

· **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

· **Vapour pressure:**

Not determined.

· **Density:**

Not determined

· **Density [23 °C]:**

1.19-1.25 g/cm³

· **Relative density**

Not determined.

· **Vapour density**

Not determined.

· **Evaporation rate**

Not determined.

· **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix

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· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: dynamic:	Not determined.
dynamic [25 °C]:	4500-6500 mPa*s
kinematic:	Not determined.
· 9.2 Other information	No further relevant information available.

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
- **Additional information:**
Two component reaction-plastic: cured with component B the product leads to a high molecular compound and is nearly inert.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values that are relevant for classification:**

110-63-4 butane-1,4-diol

Oral	LD50	1,500 mg/kg (rat) (Acute Oral Toxicity)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>15 mg/l (rat) (Acute Inhalation Toxicity - Fixed Dose Procedure)

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Oral	LD50	>2,000 mg/kg (rat) Drug Research. Vol. 19, Pg. 934,1969
Dermal	LD50	>2,000 mg/kg (rat) (Acute Dermal Toxicity)

- **Primary irritant effect:**

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

- **Serious eye damage/irritation**

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

- **Respiratory or skin sensitisation**

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

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- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
- **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**
Suspected of damaging fertility. Suspected of damaging the unborn child.
- **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.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

110-63-4 butane-1,4-diol

EC50/48 h	813 mg/l (Daphnia magna (water flea)) (Daphnia sp. Acute Immobilisation Test)
LC50/96 h	>3,000 mg/l (Pimephales promelas) (Fish, Acute Toxicity Test)

- **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.

- **Ecotoxicological effects:**

- **Remark:** Toxic for fish

- **Additional ecological information:**

- **General notes:**

Toxic for aquatic organisms

Harmful to aquatic organisms

Also poisonous for fish and plankton in water bodies.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation** Must be specially treated under adherence to official regulations.

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· Uncleaned packagings:**· Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information**

· 14.1 UN-Number	
· ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name	
· ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	Void
· Class	Void
· 14.4 Packing group	
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- EU regulations/legislation
- Regulation (EC) No 1907/2006 (REACH), Annex XIV not applicable
- Regulation (EC) No 1907/2006 (REACH), Annex XVII
Restrictions must be observed for:
dangerous liquid substances or mixtures (no. 3)
Organostannic compounds (no. 20)
- 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
- Regulation (EU) No 649/2012

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Annex I Part 1

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

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

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

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **National regulations**

· **Water hazard class:**

Water hazard class 1 (German Regulation) (Self-classification) : slightly hazardous for water

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

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· **Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The information contained herein is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Repr. 2: Reproductive toxicity – Category 2

STOT SE 2: Specific target organ toxicity (single exposure) – Category 2

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

· * Data compared to the previous version altered.

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