

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.01.2023

Version number 38 (replaces version 37)



Revision: 17.01.2023

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

- **1.1 Product identifier**
- **Trade name:** **PROTEGOL UR Coating 32-60 ca. RAL 9011, comp. A**
- **Article number:** 206307
- **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
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
TIB Chemicals AG
Muelheimer Str. 16-22
D-68219 Mannheim/Germany
UK Import via:

TIB CHEMICALS UK LTD
Riverside Business Centre
Brighton Road
Shoreham-By-Sea
West Sussex
BN43 6RE
- **Informing department:**
PRODUKTSERVICE
e-mail: Produktservice@tib-chemicals.com
Mo-Fr 9-15 h: Tel.: +49(0)621 8901 710
- **1.4 Emergency telephone number:** 24 h Tel.: +49 (0) 621 / 8901 - 700

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Eye Irrit. 2 H319 Causes 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 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 GHS09
- **Signal word** Warning
- **Hazard-determining components of labelling:**
Ethylenediamine, ethoxylated and propoxylated
- **Hazard statements**
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P273 Avoid release to the environment.
- P280 Wear protective gloves / eye protection / face protection.
- 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.
- P321 Specific treatment (see on this label).
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P391 Collect spillage.
- 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 and harmless substances.

Dangerous components:

CAS: 26316-40-5 NLP: 500-047-1	Ethylenediamine, ethoxylated and propoxylated	15-25%
	⚠ Eye Irrit. 2, H319; Skin Sens. 1B, H317	
CAS: 68479-98-1 EINECS: 270-877-4 Index number: 612-130-00-0 Reg.nr.: 01-2119486805-25-XXXX	diethylmethylbenzenediamine	2.5-5%
	⚠ STOT RE 2, H373; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Eye Irrit. 2, H319	
CAS: 2530-83-8 EINECS: 219-784-2 Reg.nr.: 01-2119513212-58-XXXX	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	<2.5%
	⚠ Eye Dam. 1, H318, EUH205	

- **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; consult doctor in case of symptoms.
- **After skin contact**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **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.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
Use fire fighting measures that suit the environment.
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters** Disposal of the fire residues according provision.
- **Protective equipment:** Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **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.
- **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.
- **Information about protection against explosions and fires:** No special measures required.
- **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:** None.
- **7.3 Specific end use(s)** No further relevant information available.

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 critical values that have to be monitored at the workplace.

· DNELs

26316-40-5 Ethylenediamine, ethoxylated and propoxylated

Oral	Consumer: long-term systemic effects	8.3 mg/kg bw/d (human (calculated))
Dermal	Consumer: long-term systemic effects	29 mg/kg bw/d (human (calculated))
	Worker: long-term systemic effects	13.9 mg/kg bw/d (human (calculated))
Inhalative	Consumer: long-term systemic effects	29 mg/m ³ (human (calculated))

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	Worker: long-term systemic effects	98 mg/m ³ (human (calculated))
68479-98-1 diethylmethylenbenzenediamine		
Oral	Worker: long-term systemic effects	0.1 mg/kg bw/d (human (calculated))
Dermal	Consumer: long-term systemic effects	1 mg/kg bw/d (human (calculated))
	Worker: long-term systemic effects	1 mg/kg bw/d (human (calculated))
Inhalative	Consumer: long-term systemic effects	0.1 mg/m ³ (human (calculated))
	Worker: long-term systemic effects	0.13 mg/m ³ (human (calculated))
2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane		
Dermal	Worker: long-term systemic effects	21 mg/kg bw/d (human (calculated))
	Worker: acute systemic effects	21 mg/kg bw/d (human (calculated))
Inhalative	Worker: long-term systemic effects	147 mg/m ³ (human (calculated))
	Worker: acute systemic effects	147 mg/m ³ (human (calculated))

· PNECs
26316-40-5 Ethylenediamine, ethoxylated and propoxylated

Freshwater ecosystem: Freshwater organisms	85 µg/l (Freshwater organisms)
Marine ecosystem: Marine water organisms	8.5 µg/l (Marine water organisms)
Terrestrial ecosystem: Agricultural soil organisms	0.0569 mg/kg soil dw (Agricultural soil organisms)

68479-98-1 diethylmethylenbenzenediamine

Freshwater ecosystem: Freshwater organisms	0.5 µg/l (Freshwater organisms)
Freshwater ecosystem: Sediment organisms	0.029 mg/kg sedim. dw (Sediment organisms)
Marine ecosystem: Sediment organisms	0.0029 mg/kg sedim. dw (Sediment organisms)
Marine ecosystem: Marine water organisms	0.05 µg/l (Marine water organisms)
Sewage treatment plant (STP): Microorganisms	17 mg/l (Microorganisms)

· Additional information: The lists that were valid during the compilation were used as 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 or drink while working.

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

· Breathing equipment: Not required.

· Hand protection

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.

· Penetration time of glove material

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

· Eye/face protection Safety glasses recommended during refilling.

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 · **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Colour:	Black
· Odour:	Characteristic
· Melting point/freezing point:	Not determined
· Boiling point or initial boiling point and boiling range	335 °C (25791-96-2 Glycerol, propoxylated)
· Flash point:	163 °C (25791-96-2 Glycerol, propoxylated)
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Surface tension:	
· dynamic:	Not determined.
· dynamic [25°C]:	2000-3000 mPa*s
· dynamisch [20°C]:	
· Solubility	
· Water:	Not miscible or difficult to mix
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C:	1.19-1.22 g/cm ³
· Density [23°C]:	1.19-1.22 g/cm ³

· 9.2 Other information

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.

· 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

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- | | |
|--|--|
| <ul style="list-style-type: none"> · Corrosive to metals · Desensitised explosives | <ul style="list-style-type: none"> Void 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:**

26316-40-5 Ethylenediamine, ethoxylated and propoxylated

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

68479-98-1 diethylmethylbenzenediamine

Oral	LD50	738 mg/kg (rat) (Acute Oral Toxicity)
Dermal	LD50	>2,000 mg/kg (rat) (Acute Dermal Toxicity)

2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Oral	LD50	8,025 mg/kg (rat) (Acute Oral Toxicity)
Dermal	LD50	>2,000 mg/kg (rabbit) (Acute Dermal Toxicity)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin 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.
- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

26316-40-5 Ethylenediamine, ethoxylated and propoxylated

LC50/48 h 103 mg/l (Daphnia magna (water flea))

LC50/96 h 25,600 mg/l (Pimephales promelas)

68479-98-1 diethylmethylbenzenediamine

LC50/48 h 200 mg/l (Leuciscus idus (orfe))

EC50/24 h >170 mg/l (Pseudomonas putida)

EC50/48 h 0.5 mg/l (Daphnia magna (water flea)) (Daphnia sp. Acute Immobilisation Test)

LC50/96 h >106 mg/l (Pimephales promelas) (Fish, Acute Toxicity Test)

2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

NOEC/21d >100 mg/l (Daphnia magna (water flea))

EC50/48 h 710 mg/l (Daphnia magna (water flea))

LC50/96 h 237 mg/l (Oncorhynchus mykiss (rainbow trout))

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

For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects No further relevant information available.

Remark: Toxic for fish

Additional ecological information:

General notes:

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation Must be specially treated under adherence to official regulations.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number

ADR, IMDG, IATA

UN3082

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· 14.2 UN proper shipping name
· ADR

 UN3082 ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S.

(diethylmethylbenzenediamine)

· IMDG

 ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S.
(diethylmethylbenzenediamine), MARINE
POLLUTANT

· IATA

 ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S.

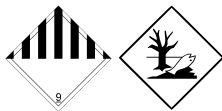
(diethylmethylbenzenediamine)

· 14.3 Transport hazard class(es)
· ADR

· Class
9 (M6) Miscellaneous dangerous substances and
articles.

· Label

9

· IMDG, IATA

· Class
9 Miscellaneous dangerous substances and
articles.

· Label

9

· 14.4 Packing group
· ADR, IMDG, IATA

III

· 14.5 Environmental hazards:
· Marine pollutant:

No

Symbol (fish and tree)

· Special marking (ADR):

Symbol (fish and tree)

· Special marking (IATA):

Symbol (fish and tree)

· 14.6 Special precautions for user
Warning: Miscellaneous dangerous substances
and articles.

· Kemler Number:

90

· EMS Number:

F-A,S-F

· Stowage Category

A

**· 14.7 Maritime transport in bulk according to
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

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·	Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· IMDG	5L
· Limited quantities (LQ)	Code: E1
· Excepted quantities (EQ)	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. (DIETHYLMETHYLBENZENEDIAMINE), 9, III

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.
- **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
- **National regulations**
- **Water hazard class:**
Water danger class 3 (German Regulation) (Self-classification): extremely hazardous for water.
- **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.

- **Relevant phrases**
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- EUH205 Contains epoxy constituents. May produce an allergic reaction.

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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 (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
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
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
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

*** Data compared to the previous version altered.**

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