

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.10.2021



Version number 3

Revision: 26.10.2021

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

- **1.1 Product identifier**
- **Trade name:** **PROTEGOL UR Coating 32-60 PT ca. RAL 9011, Komp.A**
- **Article number:** 206968
- **UFI:** 73U8-QQ9H-HG2U-EUW4
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
childcare articles  
Toys
- **Application of the substance / the mixture** Anticorrosion coating
- **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
- **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

### 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 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.

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H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

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

- **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** Remove contaminated clothing.

- **After inhalation**

- Supply fresh air and call for doctor for safety reasons.

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- In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact**  
Immediately wash with water and soap and rinse thoroughly.  
Immediately rinse with water.
- **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**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire fighting measures that suit the environment.
- **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:**  
Do not allow product to reach sewage system or water bodies.  
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.

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**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.
- **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.
- **Storage class 10**
- **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.

· <b>DNELs</b>		
<b>26316-40-5 Ethylenediamine, ethoxylated and propoxylated</b>		
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))
Inhalative	Worker: long-term systemic effects	13.9 mg/kg bw/d (human (calculated))
	Consumer: long-term systemic effects	29 mg/m <sup>3</sup> (human (calculated))
	Worker: long-term systemic effects	98 mg/m <sup>3</sup> (human (calculated))
<b>68479-98-1 diethylmethylenediamine</b>		
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))
Inhalative	Worker: long-term systemic effects	1 mg/kg bw/d (human (calculated))
	Consumer: long-term systemic effects	0.1 mg/m <sup>3</sup> (human (calculated))
	Worker: long-term systemic effects	0.13 mg/m <sup>3</sup> (human (calculated))

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<b>2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane</b>		
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 <sup>3</sup> (human (calculated))
	Worker: acute systemic effects	147 mg/m <sup>3</sup> (human (calculated))

· **PNECs**

<b>26316-40-5 Ethylenediamine, ethoxylated and propoxylated</b>	
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)
<b>68479-98-1 diethylmethylenediamine</b>	
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**

· **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.

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.

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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 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:**

<b>Form:</b>	Fluid
<b>Colour:</b>	graphite black
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

- **pH-value:** Not determined.

- **Change in condition**

<b>Melting point/freezing point:</b>	Not determined
<b>Initial boiling point and boiling range:</b>	313 °C (8001-79-4 Castor oil)

- **Flash point:** >100 °C

- **Inflammability (solid, gaseous)** Not applicable.

- **Ignition temperature:** 305 °C (25791-96-2 Glycerol, propoxylated)

- **Decomposition temperature:** Not determined.

- **Self-inflammability:** Product is not selfigniting.

- **Explosive properties:** Product is not explosive.

- **Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

- **Vapour pressure:** Not determined.

- **Density:** Not determined

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· <b>Density [23 °C]:</b>	1.2 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
dynamic:	Not determined.
dynamic [25 °C]:	1400 mPa*s
kinematic:	Not determined.
· <b>9.2 Other information</b>	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

### SECTION 11: Toxicological information

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

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>26316-40-5 Ethylenediamine, ethoxylated and propoxylated</b>		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
<b>68479-98-1 diethylmethylbenzenediamine</b>		
Oral	LD50	738 mg/kg (rat) (Acute Oral Toxicity)
Dermal	LD50	>2,000 mg/kg (rat) (Acute Dermal Toxicity)
<b>2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane</b>		
Oral	LD50	8,025 mg/kg (rat) (Acute Oral Toxicity)

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Dermal | LD50 | &gt;2,000 mg/kg (rabbit) (Acute Dermal Toxicity)

- **Primary irritant effect:**
- **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.
- **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** 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.

**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 diethylmethylenediamine**

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

EC50/24 h | &gt;170 mg/l (Pseudomonas putida)

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

LC50/96 h | &gt;106 mg/l (Pimephales promelas) (Fish, Acute Toxicity Test)

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

NOEC/21d | &gt;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.

 · **Ecotoxicological effects:**

 · **Remark:** Toxic for fish

 · **Additional ecological information:**

 · **General notes:**

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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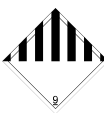

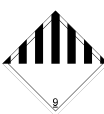
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- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Must be specially treated under adherence to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>                                | UN3082  |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul> | UN3082 ENVIRONMENTALLY HAZARDOUS<br>SUBSTANCE, LIQUID, N.O.S.<br>(diethylmethylenediamine)<br>ENVIRONMENTALLY HAZARDOUS<br>SUBSTANCE, LIQUID, N.O.S.<br>(diethylmethylenediamine)   |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul>                           | <div style="display: flex; align-items: center; gap: 10px;">   </div> |
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>   | 9 (M6) Miscellaneous dangerous substances<br>and articles.<br>9   |
| <ul style="list-style-type: none"> <li>· <b>IMDG</b></li> </ul>  |    |
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> </ul>   | 9 Miscellaneous dangerous substances and<br>articles.   |

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· Label	9
· 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
· 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 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.
· ADR	
· 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
· Transport category	3
· Tunnel restriction code	(-)
· IMDG	
· Limited quantities (LQ)	5L

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· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	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
- **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**

· **Water hazard class:**

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

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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

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

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