

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.01.2023

Version number 17 (replaces version 16)

Revision: 02.06.2021

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

- **1.1 Product identifier**
- **Trade name: PROTEGOL UR COATING 32-55 RRM RAL 9011, comp.A**
- **Article number:** 205749
- **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](mailto: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**  
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** Void
- **Signal word** Void
- **Hazard statements**  
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**  
P273 Avoid release to the environment.  
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

Two component polyurethane coating: polyole component

(Contd. on page 2)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.01.2023

Version number 17 (replaces version 16)

Revision: 02.06.2021

**Trade name: PROTEGOL UR COATING 32-55 RRM RAL 9011, comp.A**

(Contd. of page 1)

- **3.2 Mixtures**
- **Description:** Mixture of the substances listed below and harmless substances.

- **Dangerous components:**

|  |  |       |
|--|--|-------|
| CAS: 68479-98-1<br>EINECS: 270-877-4<br>Index number: 612-130-00-0<br>Reg.nr.: 01-2119486805-25-XXXX | diethylmethylbenzenediamine<br>⚠ 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% |
|--|--|-------|

- **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; consult doctor in case of symptoms.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **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.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
Use fire fighting measures that suit the environment.  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
  - carbon dioxide, carbon monoxide
  - tin oxide
- **5.3 Advice for firefighters**
- **Protective equipment:** Put on breathing apparatus.
- **Additional information** Cool endangered containers with water spray jet.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective clothing.
- **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

(Contd. on page 3)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.01.2023

Version number 17 (replaces version 16)

Revision: 02.06.2021

**Trade name: PROTEGOL UR COATING 32-55 RRM RAL 9011, comp.A**

(Contd. of page 2)

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**

**68479-98-1 diethylmethylbenzenediamine**

|            |                                      |   |
|------------|--------------------------------------|---|
| 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 <sup>3</sup> (human (calculated))  |
|            | Worker: long-term systemic effects   | 0.13 mg/m <sup>3</sup> (human (calculated)) |

- **PNECs**

**68479-98-1 diethylmethylbenzenediamine**

|  |   |
|--|---|
| 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, drink or smoke 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

(Contd. on page 4)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.01.2023

Version number 17 (replaces version 16)

Revision: 02.06.2021

**Trade name: PROTEGOL UR COATING 32-55 RRM RAL 9011, comp.A**

(Contd. of page 3)

- **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 trough 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.

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

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

|   |                                  |
|---|----------------------------------|
| · <b>Colour:</b>  | Black                            |
| · <b>Odour:</b>   | Characteristic                   |
| · <b>Melting point/freezing point:</b>                            | Not determined                   |
| · <b>Boiling point or initial boiling point and boiling range</b> | Not determined                   |
| · <b>Flash point:</b>   | >100 °C                          |
| · <b>pH</b>   | Not determined.                  |
| · <b>Viscosity:</b>   |                                  |
| · <b>Kinematic viscosity</b>                                      | Not determined.                  |
| · <b>Surface tension:</b>   |                                  |
| · <b>dynamic at 20 °C:</b>  | 20,000 mPas                      |
| · <b>dynamisch [50°C]:</b>  | 2400-3600 mPa*s                  |
| · <b>dynamisch [20°C]:</b>  |                                  |
| · <b>Solubility</b>   |                                  |
| · <b>Water:</b>   | Not miscible or difficult to mix |
| · <b>Vapour pressure:</b>   | Not determined.                  |
| · <b>Density and/or relative density</b>                          |                                  |
| · <b>Density:</b>   | Not determined                   |
| · <b>Density [23°C]:</b>  | 1.65-1.75 g/cm <sup>3</sup>      |
| · <b>Bulk density:</b>  | Not applicable.                  |

- **9.2 Other information**

- **Appearance:**

- **Form:** Pasty

- **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**

|                               |      |
|-------------------------------|------|
| · <b>Explosives</b>           | Void |
| · <b>Flammable gases</b>      | Void |
| · <b>Aerosols</b>             | Void |
| · <b>Oxidising gases</b>      | Void |
| · <b>Gases under pressure</b> | Void |
| · <b>Flammable liquids</b>    | Void |

(Contd. on page 5)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.01.2023

Version number 17 (replaces version 16)

Revision: 02.06.2021

**Trade name: PROTEGOL UR COATING 32-55 RRM RAL 9011, comp.A**

(Contd. of page 4)

|  |      |
|--|------|
| · <b>Flammable solids</b>  | Void |
| · <b>Self-reactive substances and mixtures</b>                                     | Void |
| · <b>Pyrophoric liquids</b>  | Void |
| · <b>Pyrophoric solids</b>   | Void |
| · <b>Self-heating substances and mixtures</b>                                      | Void |
| · <b>Substances and mixtures, which emit flammable gases in contact with water</b> | Void |
| · <b>Oxidising liquids</b>   | Void |
| · <b>Oxidising solids</b>  | Void |
| · <b>Organic peroxides</b>   | Void |
| · <b>Corrosive to metals</b>   | Void |
| · <b>Desensitised explosives</b>   | 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:**  
Carbon monoxide and carbon dioxide  
tin oxide (SnO / SnO<sub>2</sub>)
- **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 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:**

#### 68479-98-1 diethylmethylbenzenediamine

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

- **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.
- **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.

(Contd. on page 6)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.01.2023

Version number 17 (replaces version 16)

Revision: 02.06.2021

**Trade name: PROTEGOL UR COATING 32-55 RRM RAL 9011, comp.A**

(Contd. of page 5)

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

### SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

**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)

- **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:** Harmful to fish

- **Additional ecological information:**

- **General notes:**

Harmful to aquatic organisms

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

### 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, 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**

- **Class** Void

(Contd. on page 7)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.01.2023

Version number 17 (replaces version 16)

Revision: 02.06.2021

**Trade name: PROTEGOL UR COATING 32-55 RRM RAL 9011, comp.A**

(Contd. of page 6)

|   |  |
|---|--|
| · <b>14.4 Packing group</b><br>· <b>ADR, IMDG, IATA</b>               | Void   |
| · <b>14.5 Environmental hazards:</b><br>· <b>Marine pollutant:</b>    | No   |
| · <b>14.6 Special precautions for user</b>                            | Not applicable.                                      |
| · <b>14.7 Maritime transport in bulk according to IMO instruments</b> | Not applicable.                                      |
| · <b>Transport/Additional information:</b>                            | Not dangerous according to the above specifications. |
| · <b>IATA</b><br>· <b>Remarks:</b>                                    | No dangerous goods                                   |
| · <b>UN "Model Regulation":</b>                                       | Void   |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **EU regulation/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.
- **National regulations**
- **Water hazard class:**  
Water hazard class 2 (German Regulation) (Self-classification): 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.  
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.
- **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

(Contd. on page 8)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.01.2023

Version number 17 (replaces version 16)

Revision: 02.06.2021

**Trade name: PROTEGOL UR COATING 32-55 RRM RAL 9011, comp.A**

(Contd. of page 7)

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 Irrit. 2: Serious eye damage/eye irritation – Category 2

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

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

GB