

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

- **1.1 Product identifier**
- **Trade name** HD-LUX REAKTIVVERDÜNNER
- **Article number:** 9100-0002
- **CAS Number:**  
57472-68-1
- **EC number:**  
260-754-3
- **Registration number** 01-2119484629-21
- **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** Coating material
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Heidelberg Coatings  
Dr. Rentzsch GmbH  
  
Kurpfalzring 100a  
69123 Heidelberg  
Germany  
  
Tel.: 06221 / 7485-0  
Fax: 06221 / 7485-24  
Mail: info@heidelbergcoatings.com
- **Informing department:** Product safety department.
- **1.4 Emergency telephone number:**  
Tel.: +49(0) 6221 / 7485-16 (Mo.-Fr. 7:30-16:00)  
Mail: info@heidelbergcoatings.com

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Dam. 1 H318 Causes serious eye damage.  
Skin Sens. 1 H317 May cause an allergic skin reaction.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the CLP regulation.

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## according to 1907/2006/EC, Article 31

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· **Hazard pictograms**

GHS05 GHS07

· **Signal word** *Danger*· **Hazard-determining components of labelling:***Dipropylenglykoldiacrylat*· **Hazard statements***H315 Causes skin irritation.**H318 Causes serious eye damage.**H317 May cause an allergic skin reaction.*· **Precautionary statements***P261 Avoid breathing dust/fume/gas/mist/vapours/spray.**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.**P310 Immediately call a doctor.**P321 Specific treatment (see on this label).**P362+P364 Take off contaminated clothing and wash it before reuse.*· **2.3 Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

· **3.1 Chemical characterisation: Substances**· **CAS No. Designation:***57472-68-1 Dipropylenglykoldiacrylat*· **Identification number(s):**· **EC number:** 260-754-3· **Description:** Lacquer on the basis of the following fillers, resins and other components.· **SVHC** The product contains no substances named in the SVHC candidate list.

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**· **General information** Instantly remove any clothing soiled by the product.· **After inhalation***Supply fresh air; consult doctor in case of symptoms.**In case of unconsciousness bring patient into stable side position for transport.*· **After skin contact** Instantly rinse with water.

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- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing** In case of persistent symptoms consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** Allergic reactions
- **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 jet. Fight larger fires with water jet 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**  
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **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**  
Not required.  
Wear protective equipment. Keep unprotected persons away.  
Use breathing protection against the effects of fumes/dust/aerosol.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or water bodies.  
No special measures required.
- **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.  
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**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
  - Provide solvent resistant, sealed floor.
  - Provide floor trough without outlet.
  - Store in cool location.
- **Information about storage in one common storage facility:** Store away from oxidising agents.
- **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

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:** Not required.

#### · **DNELs**

##### **57472-68-1 Dipropylenglykoldiacrylat**

Inhalative	DNEL	24.48 mg/m <sup>3</sup> (worker, systemic, long term)
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#### · **PNECs**

##### **57472-68-1 Dipropylenglykoldiacrylat**

PNEC	0.0034 mg/l (fresh water)
	0.00034 mg/l (salt water)
	0.034 mg/l (sporadic release)
	100 mg/l (sewage plant (STP))
PNEC	0.0084 mg/kg dwt (fresh water sediment)
	0.00884 mg/kg dwt (salt water sediment)
	0.0013 mg/kg dwt (soil)

- **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**

- Keep away from foodstuffs, beverages and food.
- Instantly remove any soiled and impregnated garments.
- Wash hands during breaks and at the end of the work.
- Avoid contact with the eyes and skin.

- **Breathing equipment:** Not necessary if room is well-ventilated.

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· **Protection of hands:**

Protective gloves.

· **Material of gloves**

We recommend:

Nitril / Neopren ; strength &gt;0,55 mm

naturelatex; strength &gt; 1,0 mm

e.g. Sol-Vex 37-185; Emperor ME 104

(breakdown time &gt;180 min)

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:****Form:**

Liquid

**Colour:**

According to product specification

· **Smell:**

Recognisable

· **Odour threshold:**

Not determined.

· **pH-value:**

6

· **Change in condition****Melting point/freezing point:**

-86 °C

**Initial boiling point and boiling range:**

104 °C

· **Flash point**

(ISO 3679 / ISO 3680; SETA CLOSED CUP): 137 °C (DIN EN 456)

· **Inflammability (solid, gaseous)**

Not applicable.

· **Ignition temperature:**

240 °C

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· <b>Decomposition temperature:</b>	Not determined.
· <b>Self-inflammability:</b>	Not determined.
· <b>Explosive properties:</b>	Product is not explosive. Not determined.
· <b>Critical values for explosion:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Steam pressure at 20 °C:</b>	2.3 hPa
· <b>Density (DIN 51757) at 20 °C:</b>	1.05 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</b>	
<b>Water at 20 °C:</b>	5.2 g/l Fully miscible
· <b>Partition coefficient: n-octanol/water:</b>	-2--0.40894
· <b>Viscosity:</b>	
<b>dynamic at 20 °C:</b>	9.88 mPas
<b>kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>VOC, EU (%)</b>	0.00 %
<b>Solids content(DIN 53189):</b>	95.0 %
· <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**  
When diluting, always add acid to water, never vice versa
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Bases, oxidizing agents, amines
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

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### 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:

##### 57472-68-1 Dipropylenglykoldiacrylat

Oral	LD50	3,530 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

#### Primary irritant effect:

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/irritation

Causes serious eye damage.

#### Respiratory or skin sensitisation

May cause an allergic skin reaction.

#### 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.

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

### SECTION 12: Ecological information

#### 12.1 Toxicity

#### Aquatic toxicity:

##### 57472-68-1 Dipropylenglykoldiacrylat

EC50	10-100 mg/l (daphniae) (48 h)
	10-100 mg/l (algae) (72)
LC50	1-10 mg/l (fish) (96 h)

**12.2 Persistence and degradability** Heavily biodegradable

**12.3 Bioaccumulative potential** May be accumulated in organism

**12.4 Mobility in soil** No further relevant information available.

#### Additional ecological information:

**AOX-indication:** not relevant

**According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC:**

none

#### General notes:

Water hazard class 2 (Assessment by list): hazardous for water.

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

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*Must not reach sewage water or drainage ditch undiluted or unneutralised.*

· **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 not be disposed of together with household garbage. Do not allow product to reach sewage system.*

· **European waste catalogue**

*The waste key numbers from EWC, is sector and process-specific implement .*

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 17*	wastes from paint or varnish removal containing organic solvents or other hazardous substances

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

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

### SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, ADN, IMDG, IATA**

No dangerous good

· **14.2 UN proper shipping name**

· **ADR, ADN, IMDG, IATA**

No dangerous good

· **14.3 Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**

· **Class**

No dangerous good

· **14.4 Packing group**

· **ADR, IMDG, IATA**

No dangerous good

· **14.5 Environmental hazards:**

· **Marine pollutant:**

No

· **14.6 Special precautions for user**

*Transport only in sealed and upright standing containers. Transport only by persons instructed concerning the measures in case of spilling or*

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- |  |                   |
|--|-------------------|
| ·  | accident.         |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.   |
| · <b>UN "Model Regulation":</b>  | No dangerous good |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2004/42/EC of the European Parliament and of the Council of 21 April 2004 / Part II 2010**  
The 2004/42/EG does not apply for this product.
- **Labelling according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS05 GHS07

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**  
*Dipropylenglykoldiacrylat*
- **Hazard statements**  
*H315 Causes skin irritation.*  
*H318 Causes serious eye damage.*  
*H317 May cause an allergic skin reaction.*
- **Precautionary statements**  
*P261 Avoid breathing dust/fume/gas/mist/vapours/spray.*  
*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.*  
*P310 Immediately call a doctor.*  
*P321 Specific treatment (see on this label).*  
*P362+P364 Take off contaminated clothing and wash it before reuse.*
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** *Substance is not listed.*
- **REGULATION (EC) No 1907/2006 ANNEX XVII** *Conditions of restriction: 3*
- **National regulations** *Control of Substances Hazardous to Health (COSHH)*
- **Information about limitation of use:** *none*

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- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The REACH registration numbers given in chapter 1 (for substances) or chapter 3 (for formulations) are given to our present knowledge resulting from the information provided by our suppliers.

- **Contact:** Dr.Marcus Rentzsch

- **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 européen sur le transport 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

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

VOC: Volatile Organic Compounds (USA, EU)

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

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

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

Skin Sens. 1: Skin sensitisation – Category 1

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