

2983315

Reviewed on: 28/06/2021

Printing date: 02/07/2021

SECTION 01: Identification of the substance/mixture and of the company undertaking

• 1.1 Product identifier

- *Trade name:*
HYDROPUR 7515-99 HARDENER
- Article number / Safety Data Sheet:
H75150
- *1.2 Relevant identified uses of the substance or mixture and uses advised against*
- Application of the substance / the preparation
Coating material

• 1.3 Details of the supplier of the safety data sheet

- * • *Manufacturer/Supplier:*
Teknos AG
Industriestrasse 7
LI-9487 Gamprin-Bendern
T +423 375 94 00
F +423 375 94 99
- *Further information obtainable from:*
Product safety department. e-mail address: li-sdb@teknos.com
- *1.4 Emergency telephone number:*
Swiss Toxicological Information Centre, CH-8032 Zürich Emergency telephone: +41 (0)44 251 51 51 (International)

SECTION 02: Hazards identification

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



GHS07

Skin Sens. 1 - H317 May cause an allergic skin reaction.
STOT SE 3 - H335 May cause respiratory irritation.

Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

- *2.2 Label elements*
- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms



GHS07

- Signal word
Warning
- Hazard-determining components of labelling:
Hydrophilic, aliphatic polyisocyanate based on HDI / Hexamethylene-1, 6-diisocyanate homopolymer / cyclohexyldimethylamine / hexamethylene-di-isocyanate
- Hazard statements
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.
EUH204 Contains isocyanates. May produce an allergic reaction.
- Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P302+P352 IF ON SKIN: Wash with plenty of water.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

(continued on page 2)

according to 1907/2006/EC, Article 31

2983315

Reviewed on: 28/06/2021

Printing date: 02/07/2021

PRODUCT : HYDROPUR 7515-99 HARDENER

(continued of page 1)

- 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 03: Composition/information on ingredients• **3.2 Chemical characterization: Mixtures**• *Description:*

Mixture of substances listed below with nonhazardous additions.

• *Dangerous components:*

CAS Number		%
822-06-0	hexamethylene-di-isocyanate EC number: 212-485-8 Record number 01-2119457571-37  Acute Tox. 1 - H330;  Resp. Sens. 1 - H334;  Acute Tox. 4 - H302, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1 - H317, STOT SE 3 - H335	0,0015- 0,50
98-94-2	cyclohexyldimethylamine EC number: 202-715-5 Record number 01-2119533030-60  Skin Corr. 1B - H314;  Acute Tox. 3 - H311, Acute Tox. 2 - H330;  Flam. Liq. 3 - H226;  Acute Tox. 4 - H302	1,00- 5,00
666723-27-9	Hydrophilic, aliphatic polyisocyanate based on HDI  Acute Tox. 4 - H332, Skin Sens. 1 - H317, STOT SE 3 - H335; Aquatic Chronic 3 - H412	40,00- 60,00
3779-63-3	Hexamethylene-1,6-diisocyanate homopolymer  Acute Tox. 4 - H332, Skin Sens. 1 - H317, STOT SE 3 - H335	10,00- 25,00
28182-81-2	polyisocyanate aliphatic EC number: 500-060-2 Record number 01-2119485796-17  Acute Tox. 4 - H332, Skin Sens. 1 - H317, STOT SE 3 - H335	10,00- 25,00

• *Additional information:*

For the wording of the listed risk phrases refer to section 16.

SECTION 04: First aid measures• **4.1 Description of first aid measures**• **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

• **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

(continued on page 3)

2983315

Reviewed on: 28/06/2021

Printing date: 02/07/2021

PRODUCT : HYDROPUR 7515-99 HARDENER*(continued of page 2)*

- Immediately rinse with water.
- **After eye contact:**
Rinse opened eye for several minutes under running water.
 - **After swallowing:**
Do not induce vomiting; call for medical help immediately.
 - **Information for 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 05: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, 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**
- **Protective equipment:**
Mouth respiratory protective device.
Do not inhale explosion gases or combustion gases.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 06: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
In case of seepage into the ground inform responsible authorities.
In case of gas release or seepage into the ground inform responsible authorities.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose 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 disposal information.

SECTION 07: Handling and storage

- **Handling:**
- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
Take note of emission threshold.
- **Information about fire - and explosion protection:**
Prevent impact and friction.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
- **Information about storage in one common storage facility:**

(continued on page 4)

according to 1907/2006/EC, Article 31

2983315

Reviewed on: 28/06/2021

Printing date: 02/07/2021

PRODUCT : HYDROPUR 7515-99 HARDENER

(continued on page 3)

- Not required.
- Further information about storage conditions:
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- 7.3 Specific end use(s)**
No further relevant information available.

SECTION 08: Exposure controls/personal protection

- 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:**

822-06-0 hexamethylene-di-isocyanate**WEL**

Short-term value	0.07	mg/m3
Long-term value	0.02	mg/m3
Sen; as -NCO		

- Ingredients with biological limit values:

822-06-0 hexamethylene-di-isocyanate**BMGV****1 µmol creatinine/mol****Medium: urine****Sampling time: At the end of the period of exposure****Parameter: isocyanate-derived diamine**

- Additional information:
The lists valid during the making were used as basis.
- 8.2 Exposure controls
- Personal protective equipment:**
- General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Do not inhale gases / fumes / aerosols.
Do not inhale dust / smoke / mist.
Avoid contact with the eyes and skin.
Do not eat or drink while working.
Be sure to clean skin thoroughly after work and before breaks.
- Respiratory protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Suitable respiratory protective device recommended.
- Protection of hands:** The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Protective gloves Impervious gloves
- 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.
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- Eye protection:** Safety glasses
- Body protection:** Protective work clothing

GB

(continued on page 5)

2983315

Reviewed on: 28/06/2021

Printing date: 02/07/2021

PRODUCT : HYDROPUR 7515-99 HARDENER

(continued of page 4)

SECTION 09: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Appearance****Appearance:**

Form:	Liquid
Colour:	According to product specifica
Odour:	Characteristic Characteristic
Odour threshold:	Not determined.
pH-value:	at 20 °C 8,0

Change in condition**Initial boiling point and boiling range:** 153 °C**Flash point:** 65 °C**Flammability (solid, gas):** Not applicable.**Ignition temperature:** 165 °C**Decomposition temperature:** Not determined.**Auto-ignition temperature:** Not determined.**Explosive properties:** Not determined.**Explosion limits:****Lower:** Not determined.**Upper:** Not determined.**Vapour pressure:** at 20 °C 0,7000 mbar**Density:** 1,1100 g/cm3**Solubility in / Miscibility with****water:** Not determined.**Viscosity:**

. Not determined.

. at 20 °C

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.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
- **LD/LC50 values relevant for classification:**

822-06-0**hexamethylene-di-isocyanate**

Oral, LD50: 738 mg/kg (rat) Dermal, LD50: 593 mg/kg (rat) Oral, LD50: 348 mg/kg (rat) Inhalative, LC50/4h: 1,88 mg/l (rat)

(continued on page 6)

2983315

Reviewed on: 28/06/2021

Printing date: 02/07/2021

PRODUCT : HYDROPUR 7515-99 HARDENER

(continued of page 5)

98-94-2 cyclohexyldimethylamine

- *Primary irritant effect:*
- Skin corrosion/irritation
No irritant effect.
- Serious eye damage/irritation
No irritating effect.
- *Respiratory or skin sensitisation*
Sensitisation possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

SECTION 12: Ecological information

- **12.1 Toxicity**
- Aquatic toxicity:
No further relevant information available.
- **12.2 Persistence and degradability**
No further relevant information available.
- **Behaviour in environmental systems:**
- **12.3 Bioaccumulative potential**
No further relevant information available.
- **12.4 Mobility in soil**
No further relevant information available.
- **Ecotoxicological effects:**
- *Remark:*
Harmful to fish
- **Additional ecological information:**
- *General notes:*
Harmful to aquatic organisms
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course 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**
- *European and swiss waste code*
08
WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01
wastes from MFSU and removal of paint and varnish
08 01 11
waste paint and varnish containing organic solvents or other hazardous substances
- **Uncleaned packaging:**
- *Recommendation:*
Disposal must be made according to official regulations.

GB

(continued on page 7)

2983315

Reviewed on: 28/06/2021

Printing date: 02/07/2021

PRODUCT : HYDROPUR 7515-99 HARDENER

(continued of page 6)

SECTION 14: Transport information• **14.1 UN-Number**

ADR Void

IMDG Void

IATA Void

• **14.2 UN proper shipping name**

ADR Void

IMDG Void

IATA Void

• **14.3 Transport hazard class(es)**

ADR

Class Void

IMDG

Class Void

IATA

Class Void

• **14.4 Packing group**

ADR Void

IMDG Void

IATA Void

• **14.5 Environmental hazards:**

Not applicable.

• **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

• **Transport/Additional information:**

Not applicable.

SECTION 15: Regulatory information• **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**• **REGULATION (EC) No 1907/2006 ANNEX XVII**

Conditions of restriction: 3

• **National regulations:**• **Information about limitation of use:**

The above-mentioned manufacturer's information on the handling of isocyanates is contained in the safety data sheet of the product. The European Committee of Paint, Printing Ink and Artists 'Colours Manufacturers' Associations (CEPE) provides the following information on coatings isocyanates: Ready-to-use paints containing isocyanates may have an irritant effect on mucous membranes - especially on breathing organs - and cause hypersensitivity reactions. Inhalation of vapour or spray mist may cause sensitisation. When handling paints containing isocyanates, all precautions required for solvent-containing paints must be followed. Vapour and spray mist in particular should not be inhaled. Persons who are allergic, asthmatic, or prone to respiratory ailments should not work with isocyanate-containing paints.

• **Technical instructions (air):**• **Class Share in %**

I 1,32

• **Waterhazard class:**

Water hazard class 1 (Self-assessment): slightly hazardous for water.

• **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

GB

(continued on page 8)

according to 1907/2006/EC, Article 31

2983315

Reviewed on: 28/06/2021

Printing date: 02/07/2021

PRODUCT : HYDROPUR 7515-99 HARDENER

(continued of page 7)

SECTION 16: Other information

This information 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**

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

• **Department issuing MSDS:**

Environment protection department.

• **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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