

according to 2001/58 EC

2964220

Reviewed on: 25/02/2022

Printing date: 25/02/2022

## 01 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**

- *Trade name:*  
HARTÖL 6448

- Article number / Safety Data Sheet:  
643480

- **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

- *Emergency telephone number:*  
Swiss Toxicological Information Centre, CH-8032 Zürich Emergency telephone: +41 (0)44 251 51 51 (International)

## 02 Hazards identification

- *Classification of the substance or mixture*

\*



GHS02

\*

Flam. Liq. 3 - H226 Flammable liquid and vapour.



GHS07

\*

Skin Sens. 1 - H317 May cause an allergic skin reaction.

\*

\*

\*

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

\*

- *Label elements*

- GHS label elements
- Hazard pictograms

\*



GHS02 GHS07

\*

- Signal word  
Warning

- Hazard-determining components of labelling:

- Tung Oil

- Hazard statements

\*

H226 Flammable liquid and vapour.

\*

H317 May cause an allergic skin reaction.

\*

H412 Harmful to aquatic life with long lasting effects.

\*

- Precautionary statements

\*

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

\*

P233 Keep container tightly closed.

\*

P240 Ground and bond container and receiving equipment.

\*

P302+P352 IF ON SKIN: Wash with plenty of water.

\*

P403+P235 Store in a well-ventilated place. Keep cool.

\*

P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

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**PRODUCT : HARTÖL 6448***(continued of page 1)***03 Composition/information on ingredients**

- **Chemical characterization: Mixtures**

- **Description:**

Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

*	<b>CAS Number</b>		%
	<b>8001-20-5</b>	<b>Tung Oil</b>	<b>60,00- 90,00</b>
		EC number: 232-272-3	
		 Skin Sens. 1 - H317	
	<b>64742-49-0</b>	<b>Naphtha (petroleum), hydrotreated light</b>	<b>5,00- 10,00</b>
		EC number: 927-241-2	
		Record number 01-2119471843-32	
		 Flam. Liq. 2 - H225;  Asp. Tox. 1	
		- H304;  STOT SE 3 - H336; 	
		Aquatic Chronic 2 - H411	
		• <b>Additional information:</b>	
		For the wording of the listed risk phrases refer to section 16.	

**04 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.

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.

**05 Firefighting measures**

- **Suitable extinguishing agents:**

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **For safety reasons unsuitable extinguishing agents:**

Water with full jet

- **Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

- **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.

**06 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

- **Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

In case of seepage into the ground inform responsible authorities.

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- \* In case of gas release or seepage into the ground inform responsible authorities.  
Do not allow to enter sewers/ surface or ground water.
- **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.  
Ensure adequate ventilation.
- **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.

## 07 Handling and storage

- **Handling:**
- *Precautions for safe handling*
- \* Open and handle receptacle with care.  
Take note of emission threshold.  
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- *Information about fire - and explosion protection:*  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- \* Prevent impact and friction.
- **Storage:**
- *Requirements to be met by storerooms and receptacles:*  
Store only in the original receptacle.
- *Information about storage in one common storage facility:*  
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.
- **Specific end use(s)**  
No further relevant information available.

## 08 Exposure controls/personal protection

- **Ingredients 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.
- *Additional information:*  
The lists valid during the making were used as basis.
- **Personal protective equipment:**
- \* • *General protective and hygienic measures:*  
The usual precautionary measures are to be adhered to when handling chemicals.  
Immediately remove all soiled and contaminated clothing  
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: 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*

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- *Body protection: Protective work clothing*

## 09 Physical and chemical properties

### Appearance

#### Appearance:

<b>Form:</b>	Liquid
<b>Colour:</b>	According to product specifica
<b>Odour:</b>	Characteristic Characteristic
<b>Odour threshold:</b>	Not determined.

#### Change in condition

* <b>Initial boiling point and boiling range:</b>	80 °C
<b>Flash point:</b>	> 60 °C
<b>Flammability (solid, gas):</b>	Not applicable.
<b>Ignition temperature:</b>	255 °C
<b>Decomposition temperature:</b>	Not determined.
<b>Auto-ignition temperature:</b>	Not determined.
<b>Explosive properties:</b>	Not determined.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density:</b>	0,9300 g/cm3
<b>Solubility in / Miscibility with water:</b>	Not determined.
<b>Viscosity:</b>	
•	Not determined.
* •	22 - 32 s DIN 4 mm
<b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Incompatible materials:**  
No further relevant information available.
- **Hazardous decomposition products:**  
No dangerous decomposition products known.

## 11 Toxicological information

- \* • **Acute toxicity**
- \* • **LD/LC50 values relevant for classification:**
- \* **112-34-5 2-(2-butoxyethoxy)ethanol**
- \* Oral, LD50: 5660 mg/kg (rat)
- \* Dermal, LD50: 4000 mg/kg (Rabbit)
- **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.

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• **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

## 12 Ecological information

• **Aquatic toxicity:**  
No further relevant information available.

• **Persistence and degradability**  
No further relevant information available.

• **Behaviour in environmental systems:**

• *Bioaccumulative potential*  
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.

## 13 Disposal considerations

• **Uncleaned packaging:**

• *Recommendation:*

Disposal must be made according to official regulations.

## 14 Transport information

• **UN-Number**

ADR Void

IMDG Void

IATA Void

• **UN proper shipping name**

ADR Void

IMDG Void

IATA Void

• **Transport hazard class(es)**

ADR Void

Class Void

IMDG Void

Class Void

IATA Void

Class Void

• **Packing group**

ADR Void

IMDG Void

IATA Void

• **Environmental hazards:**

Not applicable.

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

Not applicable.

• **Transport/Additional information:**

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Not applicable.

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## \* **15 Regulatory information**

- \*
  - Inventory of Hazardous Chemicals  
12788-93-1 Phosphoric acid, butyl ester
  - **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 %
- \*
  - III 6,40
  - *Waterhazard class:*  
Water hazard class 1 (Self-assessment): slightly hazardous for water.

## \* **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**
  - \*
    - H225 Highly flammable liquid and vapour.
    - H304 May be fatal if swallowed and enters airways.
    - H317 May cause an allergic skin reaction.
    - H336 May cause drowsiness or dizziness.
    - H411 Toxic 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
    - \* Data compared to the previous version altered.