

**1 Identification of the substance/preparation and of the company/undertaking**

- **Product details**
- **Trade name:** THERMAL H10  
Element 14\* PDMS 10
- **Article number:**  
Order No. (5 L): 8940115  
Order No. (10 L): 8940114
- **Application of the substance / the preparation** temperature control liquid
- **Manufacturer/Supplier:**  
Julabo Labortechnik GmbH  
Eisenbahnstrasse 45  
D-77960 Seelbach/Deutschland
- **Further information obtainable from:**  
sales & technical support  
+49(0)782351-180
- **Information in case of emergency:** +49(0)89-19240 (24h)

**2 Hazards identification**

- **Information concerning particular hazards for human and environment:**  
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

**3 Composition/information on ingredients**

- **Chemical characterization**
- **Description:** Void
- **Dangerous components:** not applicable
- **Additional information:** For the wording of the listed risk phrases refer to section 16.

**4 First aid measures**

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
If symptoms persist consult doctor.

**5 Fire-fighting measures**

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** Wear self-contained respiratory protective device.

**6 Accidental release measures**

- **Person-related safety precautions:** Particular danger of slipping on leaked/spilled product.
- **Measures for environmental protection:**  
Do not allow product to reach sewage system or any water course.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**7 Handling and storage**

- **Handling:**
- **Information for safe handling:**  
Keep receptacles tightly sealed.  
Store in cool, dry place in tightly closed receptacles.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Storage class:** VCI: 10

**8 Exposure controls/personal protection**

- **Additional information about design of technical facilities:** No further data; see item 7.
- **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.
- **Respiratory protection:** Not required.
- **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
- **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:** Safety glasses

### 9 Physical and chemical properties

· **General Information**

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Odourless

· **Change in condition**

<b>Melting point/Melting range:</b>	<-60°C
<b>Boiling point/Boiling range:</b>	> 300°C (bei 1.013hPa)

· <b>Flash point:</b>	> 120°C (DIN 51376)
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· <b>Ignition temperature:</b>	>400°C (DIN 51794)
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· <b>Self-igniting:</b>	Product is not selfigniting.
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· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
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· <b>Vapour pressure at 20°C:</b>	<0,01 hPa
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· <b>Density at 20°C:</b>	0,93 g/cm <sup>3</sup> (DIN 51757)
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· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
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· <b>Viscosity:</b>	
<b>Kinematic at 25°C:</b>	ca. 10 mm <sup>2</sup> /s

· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0,0 %

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values relevant for classification:** LC50 (Rat): > 5000 mg/kg
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:**  
There is some experience in regard to toxicity on humans. Contact of the product with the human eye may result in a harmless and reversible clouding of sight which is of short duration, caused by formation of an oil film on the Cornea.
- **Sensitization:**  
Magnusson-Kligmann Guinea Pig: This product has no sensitizing effect on Guinea Pigs (OECD406; GPMT according to Magnusson-Kligmann).  
No sensitizing effects known.
- **Additional toxicological information:**  
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.  
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

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- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Mutagenicity: Negative according to Ames test

## 12 Ecological information

- **Ecotoxicological effects:**
- **Aquatic toxicity:**  
Bacteriologic toxicity: EC0, Species: *Pseudomonas putida*, Dose > 10000 mg/L  
LC0 Species: *Leuciscus idus*, Dose 200 mg/L Time of exposition: 96 h
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

## 13 Disposal considerations

- **Product:**
- **Recommendation** Smaller quantities can be disposed of with household waste.

### · European waste catalogue

07 01 99	wastes not otherwise specified
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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** --

- **Maritime transport IMDG:**
- **IMDG Class:** --

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** --

- **Transport/Additional information:** Not dangerous according to the above specifications.

## 15 Regulatory information

- **Labelling according to EU guidelines:**  
Observe the general safety regulations when handling chemicals.  
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

## 16 Other information

This document has been created on: 01.12.2009

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.

- **Department issuing MSDS:**  
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