

Printing date 18.12.2009

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

· **Product details**

· **Trade name:** THERMAL H335
THERMINOL® 66

· **Article number:**

Order No. (5 L): 8940131

Order No. (10 L): 8940130

· **Application of the substance / the preparation** Heat transfer medium

· **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 has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 53 May cause long-term adverse effects in the aquatic environment.

· **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:** Mixture: consisting of the following components.

· **Dangerous components:**

	Terphenyl, hydriert	R 53	74,0%
CAS: 26140-60-3 EINECS: 247-477-3	Terphenyl	 N; R 50/53	8,0%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· **After inhalation:** Take affected persons into fresh air and keep quiet.

· **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:** If symptoms persist consult doctor.

5 Fire-fighting measures

· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

· **Special hazards caused by the substance, its products of combustion or resulting gases:**

In case of fire, the following can be released:

Carbon monoxide (CO)

(Contd. on page 2)

Printing date 18.12.2009

Revision: 18.12.2009

Trade name: THERMAL H335
THERMINOL® 66

(Contd. of page 1)

· Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **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.
- **Information about fire - and explosion protection:** No special measures required.
- **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:** 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:** Wash hands before breaks and at the end of work.
- **Respiratory protection:**
Use suitable respiratory protective device when high concentrations are present.
- **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**
Nitrile rubber, NBR
Butyl rubber, BR
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.

(Contd. on page 3)

Printing date 18.12.2009

Revision: 18.12.2009

Trade name: THERMAL H335
THERMINOL® 66

(Contd. of page 2)

- **Eye protection:** Goggles recommended during refilling
- **Body protection:** Protective work clothing

9 Physical and chemical properties

· General Information

Form:	Oily
Colour:	Light yellow
Odour:	Characteristic

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 359°C (1,013hP)

· **Flash point:** 170°C (geschlossener Tiegel)

· **Self-igniting:** 373°C

· **Danger of explosion:** Product does not present an explosion hazard.

· **Vapour pressure:** <0,1 hPa

· **Density at 20°C:** 1,003 g/cm³

· **Solubility in / Miscibility with water at 20°C:** 0,061 mg/l

· **Solvent content:**
Organic solvents: 0,0 %

10 Stability and reactivity

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

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values relevant for classification:**
Solutia-Study:
LD 50, oral, rat > 10.000 mg/kg
LD50, dermal, rabbit > 2000 mg/kg
LC50, inhalatic, rat > 4,7 mg/kg
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

EU

(Contd. on page 4)

Printing date 18.12.2009

Revision: 18.12.2009

Trade name: THERMAL H335
THERMINOL® 66

(Contd. of page 3)

12 Ecological information

- **General notes:**
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

- **Product:**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **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:** -
- **Marine pollutant:** No

- **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 has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Hazard-determining components of labelling:**
Terphenyl, hydriert
- **Risk phrases:**
53 May cause long-term adverse effects in the aquatic environment.
- **Safety phrases:**
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

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.

(Contd. on page 5)

Printing date 18.12.2009

Revision: 18.12.2009

Trade name: THERMAL H335
THERMINOL® 66

(Contd. of page 4)

· **Relevant R-phrases**

50/53 *Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

53 *May cause long-term adverse effects in the aquatic environment.*

· **Department issuing MSDS:**

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