

# Thermal H300

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

### 1.1. Product identifier

**Trade name**

Thermal H300

**Article No.**

8940113

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Product type**

SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites.

**Relevant identified uses**

Tempering fluid

Working temperature range: +40°C....+300°C

### 1.3. Details of the supplier of the safety data sheet

**SDS created by**

Julabo GmbH

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**Supplier**

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## 1.4. Emergency telephone number

+49(0)89-19240 (24h)

### Available outside office hours

No

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Description

Based on available data, the classification criteria are not met. Not Classified as PBT/vPvB by current EU criteria.

### 2.2. Label elements

The product does not require labelling in accordance with CLP Regulation (EC) No 1272/2008.

### 2.3. Other hazards

In case of spills, beware of slippery floors and surfaces.

#### Other

In case of spills, beware of slippery floors and surfaces.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
White mineral oil	8042-47-5 232-455-8 01-2119487078-27- xxxx -	-	-	- - -	-

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

Fresh air. In case of persistent throat irritation or coughing: Seek medical attention and bring these instructions.

#### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water.

#### Eye contact

Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

#### Ingestion

DO NOT INDUCE VOMITING! Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable seek hospital and bring these instructions. Get medical advice/attention if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

Not known.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Extinguish with carbon dioxide or dry powder.

#### Unsuitable extinguishing media

Avoid water in straight hose stream; will scatter and spread fire.

### 5.2. Special hazards arising from the substance or mixture

When heated, vapours/gases hazardous to health may be formed. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Warn everybody of potential hazards and evacuate if necessary. In case of spills, beware of slippery floors and surfaces. In case of inadequate ventilation wear respiratory protection.

### 6.2. Environmental precautions

Prevent liquid entering sewers, basements and work pits. For waste disposal, see section 13.

### 6.3. Methods and material for containment and cleaning up

Spillage should not be discharged into the drain but removed with absorbing material. Contain spillages with sand, earth or any suitable adsorbent material.

### 6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Preventive handling precautions

Keep containers tightly closed. Keep away from heat, sparks and open flame. Take action to prevent static discharges.

#### General hygiene

Wash hands thoroughly after handling. Eating, smoking and water fountains prohibited in immediate work area. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing. Keep away from food, drink and animal feeding stuffs.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. No naked lights. No smoking. Static electricity and formation of sparks must be prevented. Protect from heat and direct sunlight. Store in tightly closed original container in a well-ventilated place. Avoid contact with oxidising agents. LGK 10-13

### 7.3. Specific end use(s)

Not known.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
Weißes Mineralöl (8042-47-5/232-455-8)	DNEL	Chronic (long term) Inhalation	160 mg/m <sup>3</sup>	Workers	Systemic
Weißes Mineralöl (8042-47-5/232-455-8)	DNEL	Chronic (long term) Inhalation	35 mg/m <sup>3</sup>	Consumers	Systemic

### 8.2. Exposure controls

#### Eye / face protection

Wear tight-fitting goggles or face shield.

#### Hand protection

Use protective gloves. Wash hands thoroughly after handling.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

#### Environmental exposure controls

Avoid release to the environment. Prevent liquid entering sewers, basements and work pits.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Physical state

Liquid

#### Colour

Colourless.

#### Odour

Odourless.

#### Melting point / freezing point

-18 °C

#### **Method**

ASTM D 97

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**Boiling point or initial boiling point and boiling range**

380 °C

**Flammability**

The product is combustible, but not flammable.

**Lower and upper explosion limit**

Not determined.

**Flash point**

245 °C

**Method**

ASTM D 92

**Auto-ignition temperature**

> 330 °C

**Method**

DIN 51794

**Decomposition temperature**

Not determined.

**pH**

Not determined.

**Kinematic viscosity**

76.5 mm<sup>2</sup>/s

**Method**

(20°C)

**Solubility**

Not soluble in water.

**Partition coefficient n-octanol/water**

> 1

**Vapour pressure**

Not determined.

**Density and/or relative density**

0.858 g/cm<sup>3</sup>

**Relative vapour density**

No data available

**Particle characteristics**

No data available

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## 9.2. Other information

No further relevant information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal temperature conditions.

### 10.2. Chemical stability

Stable under normal temperature conditions. Stable under the prescribed storage conditions.

### 10.3. Possibility of hazardous reactions

There are no known reactivity hazards associated with this product.

### 10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

### 10.5. Incompatible materials

Strong oxidising agents. Strong reducing agents.

### 10.6. Hazardous decomposition products

There are no anticipated hazardous decomposition products associated with this material. Hazardous combustion products: See section 5.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

#### Skin corrosion/irritation

None known.

#### Serious eye damage/irritation

Non Corrosive to skin.

#### Respiratory or skin sensitisation

None known.

#### Germ cell mutagenicity

None known.

#### Carcinogenicity

None known.

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**Repeated dose toxicity**

None known.

**Reproductive toxicity**

None known.

**STOT-single exposure**

None known.

**STOT-repeated exposure**

None known.

**Aspiration hazard**

None known.

**Routes of exposure**

None known.

**Symptoms related to the physical, chemical and toxicological characteristics**

None known.

**Mixture versus substance information**

None known.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

None known.

**Toxicity in case of inhalation**

None known.

**Interactive effects**

None known.

**Toxicity in case of skin contact**

None known.

**Toxicity in case of eye contact**

None known.

**11.2. Information on other hazards**

**Other information**

No further relevant information available



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## SECTION 12: Ecological information

### 12.1. Toxicity

**Acute toxicity**

Not regarded as dangerous for the environment.

### 12.2. Persistence and degradability

**Persistence and degradability**

Product / Substance name CAS / EC no.	Duration	Result	Degradation
-	28 days	50 %	biotic/abiotic
-			

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

**Mobility**

The product has poor water-solubility.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment**

This substance is not classified as PBT or vPvB.

### 12.6. Endocrine disrupting properties

No data available

### 12.7. Other adverse effects

**Other adverse effects**

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal considerations**

Do not allow runoff to sewer, waterway or ground. Avoid release to the environment.

Waste code	Waste description
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils

Please note - an asterisk (\*) next to a code denotes that it is HAZARDOUS WASTE.

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## SECTION 14: Transport information

### 14.1. UN number

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/AND/RID).

### 14.2. UN proper shipping name

#### ADR / RID / ADN proper shipping name

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/AND/RID).

### 14.3. Transport hazard class(es)

#### Label

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/AND/RID).

### 14.4. Packing group

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/AND/RID).

### 14.5. Environmental hazards

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/AND/RID).

### 14.6. Special precautions for user

No other information noted.

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

Regulation (EC) No. 1907/2006 (REACH), 1272/2008 (CLP) as amended.

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS): Not listed.

Ordinance on Persistent Organic Pollutants (POPs): Not listed.

SEVESO-category: Not classified.

#### National regulations

D15.261203910 D15.261183680

LGK according to TRGS 510: D07.261188620

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## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

### Changes to previous revision

Revision of all sections and change of layout

### Abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE - Acute Toxicity Estimate

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSR - Chemical Safety Report

DMEL - Derived Minimum Effect Level

DNEL - Derived No Effect Level

EC50 - Half Maximal Effective Concentration

ECHA - European Chemicals Agency

GHS - Globally Harmonized System

IATA - International Air Transport Association

IMDG - International Maritime Dangerous Goods

Kow - octanol-water partition coefficient

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)

LoW - List of Wastes

OEL - Occupational Exposure Limit

PBT - Persistent, Bioaccumulative and Toxic substance

PEC - Predicted Environmental Concentration

PNEC - Predicted No Effect Concentration(s)

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

SCBA - Self-Contained Breathing Apparatus

STOT - Specific Target Organ Toxicity

SVHC - Substances of Very High Concern

UFI - Unique Formula Identifier

vPvB - Very Persistent and Very Bioaccumulative