

Thermal H350

Version: 1.2

Reviewed on 09.01.2012

T-Nr.: 1.990.0060

Printind date: 16.04.12

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

Product details

Name Used on Label : **Thermal H350**
 Order-No. (5 Liter) : 8940111
 Company: : JULABO USA, INC
 Manufactured for: 884 Marcon Blvd
 ALLENTOWN, PA 18109 / U.S.A.
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 E-mail : info@julabo.com
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Emergency Information : CHEMTREC 1-800-424-9300
 Material name/category: : Methyl bis-(phenylmethyl) benzene; dibenzyltoluene

Application : High temperature heat transfer agent

2. Composition/information on ingredients

Identity	CAS #	%	TLV OSHA PEL
Methyl bis-(phenylmethyl) benzene	26898-17-9	98	None established

Chemical Name: Methyl bis-(phenylmethyl) benzene

Chemical Family: Aromatic Hydrocarbon

HMIS CODES: HEALTH: 1

FLAMMABILITY: 1

REACTIVITY: 0

NFPA CODES: HEALTH: 1

FLAMMABILITY: 1

REACTIVITY: 0

3. Physical and chemical properties

Boiling Point: 390 °C
 Specific Gravity: 1022 kg/m³
 Vapor Density (air = 1): Negligible
 % Volatiles: NA
 Viscosity: 47 cSt (20 °C)
 Appearance & Color: colorless to light yellow

Pour Point: <-34 °C
 Vapor Pressure: <0.75 mm Hg
 Solubility in water: negligible
 Evaporation rate: <1 (butyl acetate = 1)
 Molecular Weight: 272.38 g/mol
 Solubility in Organic Solvent: Soluble in Toluene

Temp (°C)	20	60	100	160	200	260	300	340
Viscosity (cSt)	47	8.1	3.1	1.4	0.92	0.57	0.45	0.35

4. Fire and Explosion Hazard Data

Flash Point, Closed Cup: 200°C (392 °F)
 Flammability Limits- LEL: No Data
 Fire Point: 246 °C (COC)

Auto ignition Temp: 450 °C
 UEL: No Data

Extinguishing Media: All standard firefighting media – water spray, foam, dry chemical or carbon dioxide.

Special Fire Fighting Procedures: None Known. Use full PPE and SCBA if fighting fire.

5. Stability and reactivity

Stability: Stable
 Conditions to avoid: All sources of ignition
 Hazard Polymerization: Will not occur
 Incompatibility (materials to avoid): None known
 Hazardous decomposition/combustion products: None known

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6. Health Hazard Data

Eye Contact:	Vapors may cause mild eye irritation
Skin contact:	Exposure may be irritating to the skin. Avoid contact.
Inhalation:	Exposure to high vapor levels may be irritating to the upper respiratory tract.
Ingestion:	Ingestion of large quantities may lead to nausea, discomfort and vomiting.
Medical Conditions Aggravated:	None known.
Chronic Toxicity:	None known.

SUGGESTED FIRST AID

- EYES: In case of contact, immediately flush eyes with flowing water for at least 15 minutes. Get medical attention.
- SKIN: Flush with water for 15 minutes. Remove contaminated clothing and shoes. Seek medical attention.
- INHALATION: Move exposed individual to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
- INGESTION: If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician.

This product or one of its ingredients present 0.1% or more is not listed as a carcinogen or suspected carcinogen by NTP, IARC or OSHA.

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

7. Precautions for Safe Handling and Use

Spill response: Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard.

Inform respective authorities in case of seepage into waterways or sewage system. Do not allow to enter sewers/ surface or ground water. Contains no chemicals on the CERCLA Hazardous Substance List.

Recommended Disposal: Disposal should be made in accordance with Federal, State and Local regulations. Incineration recommended in approved incinerator according to Federal, State, and Local regulations.

8. Protection and Precautions

Ventilation:	Mechanical ventilation may be necessary when using product at elevated temperatures.
Respiratory Protection:	None known.
Eye and Face Protection:	Safety glasses.
Other Clothing and Equipment:	Protective work clothing. Nitrile or butyl rubber gloves. The chemical resistance of glove material should be checked prior to use with the application.

For research and industrial use only.

Storage and Handling: Store in the original container.

Containers require grounding during use.

9. Department of Transportation Data

DOT HAZARD CLASS: None required

DOT LABELS: None required

DOT ID No: None Required

UN/NA Number: None

Export: None

EPA Hazard Waste: Dispose of unused material or empty containers as non-hazardous in accordance with state and federal guidelines. Used product may be re-evaluated for proper disposal by user as the classification may change.

WHMIS Hazard Class: No Known WHMIS Class

CPSC Classification: None

Transportation Class: None

RID (OCTI) None

ADR (EDE) None

RAR (IATA) None

10. Other information

United States Regulations

OSHA: Non-hazardous by OSHA Hazard Communication Standard
TSCA Inventory Listing: Methyl bis – (phenylmethyl) benzene CAS [26898-17-9]
SARA 302 Status: Contains no chemicals subject to SARA 302 reporting
SARA 313 Chemicals: Contains no chemicals subject to SARA 313 reporting.
California: Contains no ingredients listed under the California Safe Drinking Water Act (PROP 65) Listing.

Canada

This material is not a controlled product as defined by Canada's Workplace Hazardous Materials Information System (WHMIS).

The components of this product are either on the Canadian Domestic Substance List Inventory Listing (DSL) or NDSL.

DISCLAIMER

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All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Julabo USA, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.