

## Thermal C2

Version: 1.2

Reviewed on 03.08.2011

T-Nr.: 1.990.0060

Print date: 03.08.11

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

### Product details

Name Used on Label : **Thermal C2**  
 Order-No. (5 Liter) : 8891401  
 Order-No. (10 Liter) : 8891400

Company : JULABO U.S.A., INC  
 Manufactured for: 884 Marcon Blvd  
 ALLENTOWN, PA 18109 / U.S.A.

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Emergency Information : CHEMTREC 1-800-424-9300  
 Trade name : Polydimethylsiloxane

Application : Thermal bath fluid

## 2. Composition/information on ingredients

Identity	CAS #	%	TLV OSHA PEL
Dodecamethylpentasiloxane	141-63-9	100	Not established

Chemical Name: **Polydimethylsiloxane**Synonyms: **Dodecamethylpentasiloxane**Chemical Family: **Silicone****HMIS CODES: HEALTH: 1****FLAMMABILITY: 2****REACTIVITY: 0**

## 3. Physical and chemical properties

Boiling Point: 229°C  
 Specific Gravity: 0.88  
 Vapor Density (air = 1): >1  
 % Volatiles: NA  
 Molecular Weight: 310-458  
 Appearance & Color: Clear, nearly odorless liquid

Freezing Point: <-90°C  
 Vapor Pressure: 1mmHg (25°C)  
 Solubility in water: Insoluble  
 Evaporation rate: <1 (butyl acetate = 1)  
 Viscosity: 2.0cSt

Temp (°C)	-30	0	30	60
Viscosity (cSt)	4.2	3.0	1.8	1.3

## 4. Fire and Explosion Hazard Data

Flash Point, Closed Cup: 75°C (167°F)      Auto ignition Temp: 430°C  
 Flammability Limits- LEL: NA      UEL: NA

Extinguishing Media: Water spray, foam, carbon dioxide, dry chemical.

Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe fumes or inhale vapors.

Unusual Fire and Explosion Hazards: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame. Liquid generates strong static charge when poured.

## 5. Stability and reactivity

Stability: Stable

Conditions to avoid: Combustible. Store away from oxidizers.

Incompatibility (materials to avoid): Avoid contact with peroxides, oxidizing agents.

Hazardous decomposition products: Organic Acid Vapors, formaldehyde and silicon dioxide.

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### 6. Health Hazard Data

Eye Contact:	Vapors may cause immediate or delayed severe eye irritation.
Skin contact:	No information available. Avoid contact.
Inhalation:	Inhalation of vapors or particulates will irritate the respiratory tract. Overexposure may produce coughing, headache and nausea.
Oral Toxicity:	Not determined
Chronic Toxicity:	There are no known chronic effects related to this compound.

#### 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, and then wash with soap and water.
- INHALATION: Move exposed individual to fresh air. Call a physician.
- INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. To conscious individual, give 1 cup of water to dilute ingested fluid. Get medical attention

### 7. Precautions for Safe Handling and Use

Spill response: May be hazardous to aquatic life if released to open waters. Cover spill with absorbent material. Transfer to a suitable container for disposal.

Recommended Disposal: May be incinerated. Alternately, absorb onto clay or vermiculite and dispose of absorbent material as solid waste. Follow all chemical pollution control regulations.

### 8. Protection and Precautions

Ventilation:	Local exhaust is required. Mechanical is recommended.
Respiratory Protection:	If exposure exceeds TLV air-supplied or combination organic vapor amine gas respirator.
Eye and Face Protection:	Chemical worker's goggles. Do not wear contact lenses.
Other Clothing and Equipment:	Rubber, neoprene or nitrile gloves. An eyewash and emergency shower should be available. Launder clothing before reuse.

For research and industrial use only.

Storage and Handling: Store in sealed containers.

Containers require grounding during use.

### 9. Department of Transportation Data

DOT SHIPPING NAME: POLYDIMETHYLSILOXANE

DOT HAZARD CLASS: None required

DOT LABELS: None required

DOT ID No: None Required

Prepared by safety and environmental affairs ISSUE DATE Thermal C2: 11/01/2008

### 10. Other information

#### 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.