

## Thermal C5

Version: 1.1

Reviewed on 03.08.2011

T-Nr.: 1.990.0060

Printind date: 03.08.11

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

### Product details

Name Used on Label : **Thermal C5**  
 Order-No. ( 5 Liter) : 8891403  
 Order-No. ( 10 Liter) : 8891402

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

Phone : [+1] 610-231-0250  
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Emergency Information : CHEMTREC 1-800-424-9300  
 Trade name : Polydimethylsiloxane

Application : Bath fluid, Component in personal care products

## 2. Composition/information on ingredients

Identity	CAS #	%	TLV OSHA PEL
Polydimethylsiloxane	63148-62-9	100	Not established

Chemical Name: **Polydimethylsiloxane**

Synonyms: Polydimethylsiloxane, PDMS

Chemical Family: Silicone

HMIS CODES:

HEALTH: 1

FLAMMABILITY: 1

REACTIVITY: 0

## 3. Physical and chemical properties

Boiling Point: >205°C  
 Specific Gravity: 0.918  
 Vapor Density (air = 1): Negligible  
 % Volatiles: NA  
 Viscosity: 5.0cSt  
 Appearance & Color: Clear colorless liquid

Freezing Point: <-90°C  
 Vapor Pressure: negligible  
 Solubility in water: Insoluble  
 Evaporation rate: <1 (butyl acetate = 1)  
 Molecular Weight: 700 to 800  
 Solubility in Organic Solvent: Soluble in Toluene

Temp (°C)	-40	-25	0	50	75	100
Viscosity (cSt)	27	17	8.9	3.2	2.2	1.6

## 4. Fire and Explosion Hazard Data

Flash Point, Closed Cup: >135°C (275°F)  
 Flammability Limits- LEL: No Data

Auto ignition Temp: 443°C  
 UEL: No Data

Extinguishing Media: All standard firefighting media

Special Fire Fighting Procedures: None Known

## 5. Stability and reactivity

Stability: Stable  
 Conditions to avoid: None  
 Hazard Polymerization: Will not occur  
 Incompatibility (materials to avoid): None known  
 Hazardous decomposition/combustion products: Carbon monoxide, carbon dioxide, formaldehyde and silicon dioxide

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### 6. Health Hazard Data

Eye Contact:	Vapors May cause Mild Eye Irritation
Skin contact:	None known. Avoid contact.
Inhalation:	None known.
Ingestion:	None known.
Medical Conditions Aggravated:	None known.
Other:	None known.
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: None known

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.

### 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.

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:	None known.
Respiratory Protection:	None known.
Eye and Face Protection:	Safety glasses.
Other Clothing and Equipment:	None known

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

UN/NA Number: None

Export: None

EPA Hazard Waste: None

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

#### DISCLAIMER

The information contained in this document has been gathered from reference materials and/or test data and is to the best knowledge and belief of Julabo USA, Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones that exist. Julabo USA, Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore.

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.