

Print date: 03.10.19

#### SECTION 1. Identification of the substance/mixture and of the company **Product identifier** Name Used on Label : Thermal C5 Order-No. (5 Liter) 8891403 : Order-No. (10 Liter) : 8891402 Order-No. (55 Gal Drum): 8891301 Company JULABO U.S.A., INC : Manufactured for: 884 Marcon Blvd ALLENTOWN, PA 18109 / U.S.A. [+1] 610-231-0250 Phone • Fax [+1] 610-231-0260 : E-mail : info@julabo.us www.julabo.us Internet : Emergency Information :CHEMTREC 1-800-424-9300 :Polydimethylsiloxane Trade name Recommended use Industrial use only : temperature control liquid Application : working temperature range -60 °C - +110 °C

## **SECTION 2. Hazards identification**

Physical hazards	Not classified	
Health hazards	Not classified	
Environmental hazards	Not classified	
OSHA defined hazards	Not classified	
*Hazards not stated here are "Not classified", "Not applicable", or "Classification not possible"		

### Label Elements

Hazard symbol	None
Signal word	None
Hazard statement	Not available
Precautionary statement	
Prevention	Not available
Response	Not available
Storage	Not available
<b>Disposal</b> N	ot available
Hazard(s) not otherwise classified (	(HNOC) None known
Supplemental information	None

**GHS Classification** Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

**HMIS Ratings:** 

Health: 0

Flammability: 1

Physical hazard: 0

## **SECTION 3.** Composition / information on ingredients

Substances

Chemical Name	CAS number	%
Polydiimethylsiloxane	63148-62-9	100

**Dangerous components** 

Not applicable

## **SECTION 4. First aid measures**



General information:	No special measures required	
Inhalation	Supply fresh air; consult doctor in case of c	omplaints.
Skin contact	Wash skin with soap and water	
Eye contact	Rinse immediately with plenty of water for	at least 15 minutes
Ingestion	Rinse mouth. Get medical attention immedi	iately.
Most important symptoms/effects, acute and delayed		Not available
Indication of immediate medical attention and special treatment needed Tr		Treat symptomatically.

## **SECTION 5. Firefighting measures**

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Flash point:	>214 °F / >101.1 °C (Closed Cup)
Autoignition temperature:	>752 °F / >400 °C
Flammability Limits in Air:	Not determined
Suitable extinguishing media	Water spray. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
Unsuitable extinguishing media	Water with full jet
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Specific hazards arising from	By heating and fire, harmful vapors / gases may be formed.
the chemical	
Special protective equipment	Firefighters must use standard protective equipment including flame retardant
and precautions for firefighters	coat, helmet, gloves, rubber boots, and self-contained breathing apparatus.
and precautions for intenginers	coal, nemiel, groves, rubber boots, and sen-contained oreaning apparatus.
Fire-fighting equipment /	Move containers from fire area if you can do so without risk. Water runoff can
Instructions	cause environmental damage.
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## **SECTION 6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures** Wear appropriate personal protective equipment. Particular danger of slipping on leaked / spilled product.

**Environmental precautions** 

Do not allow product to reach sewage system or any water course.

### Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, sawdust, acid binders, universal binders)

## **SECTION 7. Handling and storage**

 Precautions for safe handling

 Keep receptacles tightly sealed. Do not breathe mist or vapor. Provide adequate ventilation.

 Information about fire - and explosion protection

 No special measures required

 Conditions for safe storage, including any incompatibilities

 Store in a cool, dry place out of direct sunlight. Keep in original container.

 Storage class:
 VCI: 10

 Specific end use(s):
 No additional information available.

## **SECTION 8. Exposure controls / personal protection**

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Provide eyewash station

### Individual protection measures, such as personal protective equipment

Eye/face protection	Use proper protection – safety glasses as a minimum
Skin protection	
Hand protection	Wear protective gloves
Other	No special protective equipment required
Respiratory protection	If ventilation is insufficient when heating use chemical respirator with organic vapor cartridge.



### Thermal hazards

Not available

### General hygiene considerations

Wash hands before breaks and immediately after handling product. Handle in accordance with good industrial hygiene and safety practice. This product can generate formaldehyde at approximately 150 °C (300 °F) and above in the presence of air. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and potential cancer hazard. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.

SECTION 9. Physical and chemical properties		
Physical Form	Liquid	
Color	Colorless	
Odor	Odorless	
Density	0.915 (@ 25 °C)	
Viscosity	5 cSt (@ 25 °C)	
рН	Not available	
Freezing / melting point	Not available	
Initial boiling point / boiling range	>205 °C	
Flash point	>214 °F / >101 °C (Closed Cup)	
Auto-ignition temperature	>752 °F / >400 °C	
Decomposition temperature	Not available	
Evaporation rate	Not available	
Volatile content	Not available	
Flammability (solid , gas)	Not applicable	
Upper / lower flammability or explosive limits		
Flammability limit – lower (%)	Not available	
Flammability limit – upper (%)	Not available	
Explosive limit – lower (%)	Not available	
Explosive limit – upper (%)	Not available	
Vapor pressure	Not available	
Vapor density	Not available	
Solubility in water	Insoluble	

Above information is not intended for use in preparing product specifications.

## **SECTION 10. Stability and reactivity**

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Reactivity	Product stable and non-reactive under normal conditions of use,
	storage and transport.
Chemical stability	Stable at normal conditions
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	None known.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Thermal decomposition of this product during fire or very high heat conditions may evolve the following decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon Dioxide. Formaldehyde.

## **SECTION 11. Toxicological information**

Information on likely routes of exposu	re
Ingestion	Not available

Ingestion	Not available
Inhalation	Not available
Skin contact	Not available
Eye contact	Contact of the product with the human eye may result in a harmless and reversible clouding of sight which is of short duration, caused by formation of an oil film on the cornea.

Symptoms related to the physical, chemical and toxicological characteristics



Information on toxicological effects Acute toxicity	LD50, oral, rat >5000 mg/kg LC50, inhalation, rat >535 mg/kg (1 h, Aerosol) LD50, dermal, rabbit >10000 mg/kg
Skin corrosion / irritation	Not available
Serious eye damage / eye irritation	Contact of the product with the human eye may result in a harmless and reversible clouding of sight which is of short duration, caused by formation of an oil film on the cornea.
Respiratory or skin sensitization	•
Respiratory sensitization	Not available
Skin sensitization	Not available
Germ cell mutagenicity	Not available
Carcinogenicity	
OSHA Specifically Regulated Su Not listed.	ubstances (29 CFR 1910.1001-1050)
Reproductive toxicity	Not available
Specific target organ toxicity - single exp	oosure Not available
Specific target organ toxicity - repeated	
Aspiration hazard	Not available
Further information	When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

## **SECTION 12. Ecological information**

Toxicity Aquatic toxicity LC0, 96 h, 200 mg/l, Leuciscus idus EC0, > 10.000 mg/l Pseudomonas putida Persistence and degradability **Bioaccumulative potential** Mobility in soil Other adverse effects

Not available Not available Not available Not available

## **SECTION 13. Disposal considerations**

**Disposal instructions** 

# **SECTION 14. Transport information**

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DOT	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

Follow applicable Federal, State and Local regulations

**Transport / Additional information** Not dangerous according to the above specifications.

## **SECTION 15. Regulatory information**

### **US Federal regulations**

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 313 (TRI reporting) None present or not present in regulated quantities. DOT Road Shipment Information (49 CFR 172.101) Not subject to DOT. **Ocean Shipment (IMDG)** 

Not subject to IMDG code.

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### Air Shipment (IATA)

Not subject to IATA regulations

### **US state regulations**

Massachusetts RTK – Substance List Not regulated New Jersey Worker and Community Right-to-Know Law CAS Number [63148-62-9] >60 wt% Polydimethylsiloxane Pennsylvania Worker and Community Right-to-Know Law CAS Number [63148-62-9] >60 wt% Polydimethylsiloxane Not regulated **Rhode Island RTK California Proposition 65** This product does not contain any chemicals known to the State of California to cause cancer, birth or any other reproductive defects.

### **International Inventories**

Polydimethylsiloxane [63148-62-9]	
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)	
Listed on the Japanese ENCS (Existing * New Chemical Substances) inventory	
Listed on the Canadian Domestic Substances List (DSL)	
Listed on KECI (Korean Existing Chemicals Inventory)	
Listed on USA Toxic Substances Control Act (TSCA)	
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)	
Listed on NZIoC (New Zealand Inventory of Chemicals)	
Listed on the AICS (Australian Inventory of Chemical Substances)	

## **SECTION 16. Other information**

This document was created on 5 May 2015.

### NFPA ratings

### Health:

- 0 Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.
- Flammability: Instability:
- 1-Must be preheated before ignition can occur
- 0 Normally stable, even under fire exposure conditions, and not reactive with water.



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All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) 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 SDS. 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 SDS 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.