Thermal C5

Version: 2.4

Reviewed on 05.28.2024 Print date: 28.05.24

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.

 Phone
 : [+1] 610-231-0250

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 : [+1] 610-231-0260

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 : info@julabo.us

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 : www.julabo.us

Emergency Information :CHEMTREC 1-800-424-9300

Trade name :Polydimethylsiloxane

Recommended use : Industrial use only
Application : temperature control liquid

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

PreventionNot availableResponseNot availableStorageNot available

Disposal Not 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	%
Siloxanes and silicones, dimethyl	63148-62-9	90-100

Dangerous components Not applicable

SECTION 4. First aid measures

Description of first aid measures

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General information: No special measures required

Inhalation Supply fresh air; consult doctor in case of complaints.

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 immediately.

Most important symptoms/effects, acute and delayed Not available

Indication of immediate medical attention and special treatment neededTreat symptomatically.

SECTION 5. Firefighting measures

Flash point: 275 °F / 135 °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 (CO₂).

Unsuitable extinguishing media Water with full jet

Specific hazards arising from

the chemical

By heating and fire, harmful vapors / gases may be formed.

Special protective equipment Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots, and self-contained breathing apparatus.

Fire-fighting equipment / Move containers from fire area if you can do so without risk. Water runoff can

Instructions cause environmental damage.

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 valuesNo 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.

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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) 5 cSt (@ 25 °C) Viscosity pН 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 °CDecomposition temperatureNot availableEvaporation rateNot availableVolatile contentNot availableFlammability (solid , gas)Not applicable

Upper / lower flammability or explosive limits

Flammability limit – lower (%)
Flammability limit – upper (%)
Explosive limit – lower (%)
Not available
Not available
Explosive limit – upper (%)
Not available
Not available

Vapor pressureNot availableVapor densityNot availableSolubility in waterInsoluble

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

SECTION 10. Stability and reactivity

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 exposure

Ingestion Very low toxicity if swallowed. Harmful effects not anticipated with

small amounts ingested.

Inhalation Not available

Skin contact Brief contact nonirritating to skin

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.

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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 irritationContact 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 sensitizationNot availableSkin sensitizationNot availableGerm cell mutagenicityNot available

Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity
Specific target organ toxicity – single exposure
Specific target organ toxicity – repeated exposure
Aspiration hazard
Not available
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

SECTION 13. Disposal considerations

Disposal instructions Follow applicable Federal, State and Local regulations **DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER.**

For unused & uncontaminated product: send to a licensed permitted incinerator or other thermal destruction device.

SECTION 14. Transport information

DOTNot regulated as dangerous goods.IATANot regulated as dangerous goods.IMDGNot regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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)

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Not subject to DOT.

Ocean Shipment (IMDG)

Not subject to IMDG code.

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

Rhode Island RTK Not regulated

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 NZloC (New Zealand Inventory of Chemicals)	

SECTION 16. Other information

Listed on the AICS (Australian Inventory of Chemical Substances)

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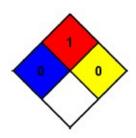
NFPA ratings Health: 0 – Exposure under fire conditions would offer no hazard beyond that

of ordinary combustible materials.

Flammability: 1– Must be preheated before ignition can occur

Instability: 0 - Normally stable, even under fire exposure conditions, and not

reactive with water.



DISCLAIMER

Information presented herein has been compiled from information provided to us by our suppliers and other sources considered to be dependable and are accurate and reliable to the best of our knowledge and belief but are not guaranteed to be so. We make no warranty as to the results to be obtained in using any material and since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of any material supplied by us.

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.