



SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Paratherm LC™ Hot Oil System Cleaner

Company Identification: Paratherm Corporation
4 Portland Road
West Conshohocken, PA 19428 USA

Product Information: 1-610-941-4900
info@paratherm.com

Emergency Telephone: 1-610-941-4900
Chemtrec (USA): 1-800-424-9300
Chemtrec (outside USA): 1-703-527-3887

SECTION 2 HAZARDS IDENTIFICATION

Emergency Overview

Dark brown liquid with petroleum odor.
Combustible liquid.

Potential Health Effects:

Eye: Not expected to cause prolonged or significant eye irritation.

Skin: Repeated or prolonged contact of new or used product may cause minor skin irritation.

Ingestion: No harmful effects are expected from ingesting new product or small amounts of used product. Ingestion of used product may cause abdominal discomfort.

Inhalation: Exposure to smoke or mist while product is in use may cause irritation to upper respiratory tract and lungs.

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Hydrotreated mineral oil	8042-47-5	40 to 75%
Proprietary Hydrocarbon	Trade Secret	60 to 25%



SECTION 4 FIRST AID MEASURES

Eye: Remove contact lenses if worn. Flush eyes immediately with water for 15 minutes. If symptoms persist, seek medical attention. If fluid is hot, treat burns and seek medical assistance.

Skin: Wash exposed areas with warm water and soap. If fluid is hot, submerge injured area in cold water. Seek medical attention for severe burns.

Ingestion: Not expected to be harmful if swallowed. If abdominal discomfort occurs, seek medical attention. Do not induce vomiting.

Inhalation: If smoke or mist is generated when fluid is in use, remove victim from exposure. If breathing has stopped or is irregular, administer artificial respiration and supply oxygen if available. If victim is unconscious, remove to fresh air and seek medical attention.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media: Water fog, foam, dry chemical, or carbon dioxide (CO₂) should be used. Do not use direct water stream

Fire Fighting Instructions: Do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment (including drums) exposed to fire with water if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

Combustion Products: Airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds. May also form various sulfur oxides

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material. Use personal protection recommended in Section 8.

Spill Management: Contain release to prevent further contamination of soil, surface water or groundwater. Use appropriate techniques such as non-combustible absorbent materials. Store collected material in a suitable, labeled container. Dispose of contaminated materials in a manner consistent with applicable regulations. If heated material is spilled, allow it to cool to ambient before proceeding with disposal methods. Keep area around hot, spilled material well ventilated.

Reporting: Report spills to appropriate local authorities. This product is classified as an "Oil" under Section 311 of Clean Water Act (USA). Discharge or spills that produce a visible sheen on surface water or in waterways/sewers that lead to surface water must be reported to appropriate authorities.

SECTION 7 HANDLING AND STORAGE

Precautionary Measures: Product is not hazardous. Use good personal hygiene practices.

Storage: Store closed containers away from heat, sparks, open flames, or oxidizing materials. Do not transfer to unmarked containers. Protect metal drums from direct sunlight and water.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

Component: Hydrotreated mineral oil **OSHA PEL*:** 5 mg/m³ TWA
ACGIH TLV: 5 mg/m³ TWA
10 mg/m³ STEL

*NOTE: Abbreviation listing in Section 16

Engineering Controls: Use in a well-ventilated area

Personal Protective Equipment:

Eye/Face Protection: Where splashing is possible, wear safety glasses with side shields.

Skin Protection: For prolonged or repeated exposure,, synthetic rubber (nitrile) protective covers (boots, aprons, gloves) may be desirable. If material will be handled while hot, wear insulated clothing. Use good personal hygiene practices before and after fluid handling.

Respiratory Protection: No respiratory protection is normally required. If a mist or smoke is generated during use, wear a NIOSH certified organic vapor respirator with a dust and mist filter.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dark brown liquid

Odor: Mild petroleum odor

pH: NA

Density: 7.7 lb/gal @ 75 °F (23.9 °C)

Flashpoint: > 350°F (176.7°C) Cleveland
Open Cup

Vapor Pressure: <1mm @70F (21.1°C)

Vapor Density (Air = 1): >1

Evaporation Rate (BuAc = 1): <1

Boiling Point: >500°F (260°C)

Solubility: Insoluble in water.

Freezing Point: < 0°F (-18°C)

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Stable under normal storage and handling conditions.

Conditions to Avoid: None

Incompatibility With Other Materials: May react with strong oxidizing agents.

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition Products: None known.

SECTION 11 TOXICOLOGICAL INFORMATION

Carcinogenicity:

NTP: No

IARC: No

OSHA: No

SECTION 12 ECOLOGICAL INFORMATION

Environmental Toxicity: Product is insoluble in water. Not expected to be harmful to aquatic organisms.

Biodegradability: Product is not expected to be biodegradable

SECTION 13 DISPOSAL CONSIDERATIONS

New or used uncontaminated material can be removed by a licensed waste oil recycler. Used product that has been contaminated with a regulated material may need to be incinerated. Refer to state and local regulations for more detailed information.

SECTION 14 TRANSPORT INFORMATION

US DOT: Not regulated **IATA & IMDG:** Not regulated

SECTION 15 REGULATORY INFORMATION

United States

RCRA Hazardous Waste Number and Classification: Not applicable

TSCA Inventory Status: Included

SARA Title III Section 313 and 40 CFR 372: Not subject to reporting requirements

SARA 311/312 Categories: Not subject to reporting requirements

California Proposition 65: This product does not contain materials which the state of California has found to cause cancer, birth defects, or other reproductive harm.

Canada

Domestic Substances List: Listed

WHMIS Classification: Not controlled

International Inventories:

Australia (AICS)

China

Europe (EINECS)

Japan (ENCS)

Korea (ECL)

Philippines (PICCS)

EU Risk and Safety Phrases

R53: May cause long-term adverse effects in the aquatic environment

S56: Dispose of this material and it's container at hazardous or special waste collection point

S57: Use appropriate container to avoid environmental contamination.

S60: This material and its container must be disposed of as hazardous waste

SECTION 16 OTHER INFORMATION

Recommended Use: Cleaner for liquid phase heat transfer systems

Date of Revision: 10/19/09

Reason for Revision: Update

NFPA RATINGS: Health: 0 Flammability: 1 Reactivity: 0
0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

Abbreviations that may have been used in this document

TLV - Threshold Limit Value

TWA - Time Weighted Average

STEL - Short-term Exposure Limit

PEL - Permissible Exposure Limit

IDLH Immediate Danger to Life and Health

CAS - Chemical Abstract Service Number

NOHSC Nat'l Occup. Health & Safety Comm.

OSHA - Occupational Safety and Health Administration

< - Less Than

> - Greater Than

<= - Less Than or Equal To

>= - Greater Than or Equal To

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard Z400.1).

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.