



SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Paratherm SC[®] Heat Transfer System Cleaner

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

Product Information: 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

Harmful or fatal if swallowed or inhaled. Can cause lung damage or chemical pneumonitis

Light brown liquid. Solvent odor. Combustible liquid.

Potential Health Effects:

Eye: Expected to be irritating and damaging on direct contact. Vapors may also cause irritation.

Skin: May be irritating on direct single contact. Repeated or prolonged contact of used product may cause minor skin irritation.

Ingestion: Do not ingest. Can cause lung damage or death if aspiration occurs while swallowing or during subsequent vomiting.

Inhalation: Vapors may be irritating and can produce headaches, dizziness, vertigo, chest pains, bronchitis, pulmonary edema, cyanosis, narcosis, pneumonitis and accelerated pulse. Prevent aerosolization or misting.

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Mineral Oil	8042-47-5	40-75%
Polyalkylene amine	Proprietary	<10%
Gum Turpentine	9005-90-7	<40%

SECTION 4 FIRST AID MEASURES

Eye: Immediately flush eyes with water. Immediately seek medical assistance..

Skin: Wash exposed areas with warm water and soap. Remove contaminated clothing. If irritation occurs, seek medical attention.

Ingestion: Seek immediate medical attention. Do not induce vomiting. Stomach pumping and lavage may be necessary. If vomiting does occur, lower head below knees to avoid aspiration.

Inhalation: Remove victim from exposure. Seek medical assistance.

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 full protective gear and self-contained breathing apparatus pressure demand, MSHA/NIOSH approved (or equivalent) 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.

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. Fire extinguishers should be kept readily available. Clean up any spill promptly.

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:

<u>Component</u>	<u>%</u>	<u>STEL</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
Mineral Oil	40-75%	No limit	No limit	No limit
Polyalkylene amine	<10%	Not established	Not established	Not established
Gum Turpentine	<40%	150 ppm	100 ppm	100 ppm

Engineering Controls: Use only in a well-ventilated area

Personal Protective Equipment:

Eye/Face Protection: Use OSHA approved chemical splash goggles with side shields.

Skin Protection: Wear synthetic rubber (nitrile) protective covers (boots, aprons, gloves). 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, a MSHA/NIOSH-approved organic vapor respiratory protection should be worn.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow liquid
Odor:	pine scent
pH:	NA
Density:	7.3 lb/gal @ 75 °F (23.9 °C)
Flashpoint:	>110°F (43 °C) Closed Cup
Vapor Pressure:	<1mm @70F (21.1°C)
Vapor Density (Air = 1):	>1
Evaporation Rate (BuAc = 1):	<1
Solubility:	Insoluble in water.

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

Acute Toxicity:

Skin Absorption:	LD50= >5000 mg/kg
Ingestion:	LD50= >5000 mg/kg (white rat)
Inhalation:	LCLo= 175 ppm irritant effects (human)

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 inherently biodegradable

SECTION 13 DISPOSAL CONSIDERATIONS

New or used uncontaminated material can be burned for fuel value in an approved facility or 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 Title III Section 311/312 Reportable Hazard Categories: Immediate Health

Clean Air Act Section 112: Not classified as a Hazardous Air Pollutant (HAP)

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.

CERCLA: Not subject to special reporting

Canada

WHMIS Classification: Not controlled

SECTION 16 OTHER INFORMATION

Recommended Use: Cleaning fluid for liquid-phase heat transfer systems

Date of Revision: April 29, 2011

Reason for Revision: Revise Section 9

NFPA RATINGS: Health: 1 Flammability: 2 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.