

**SECTION 1 PRODUCT AND COMPANY IDENTIFICATION****Product Name: Paratherm HR Heat Transfer Fluid****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**

Almost water white oil with slight solvent odor before use.
Will turn dark brown and develop chemical odor when product is used.
Combustible liquid.

Potential Health Effects:**Eye:** Unused product may cause minor irritation on direct contact. Used product will cause irritation.**Skin:** Non-irritating on direct single or repeated and prolonged contact with new product. Used product will cause minor skin irritation.**Ingestion:** May cause nausea and abdominal discomfort. Aspiration may lead to chemical pneumonitis which can be fatal.**Inhalation:** Exposure to smoke or vapors will cause irritation, dizziness and headaches.
Prolonged or repeated exposure to mists may cause chemical pneumoitis which can be fatal.**SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS**

COMPONENTS	CAS NUMBER	AMOUNT
Alkylated bi-phenyl	Proprietary	100%

SECTION 4 FIRST AID MEASURES**Eye:** Immediately flush eyes with water. If symptoms persist, seek medical attention. If fluid is hot, treat burns and seek medical assistance.**Skin:** Remove and launder contaminated clothing. Wash exposed areas with warm water and soap. If fluid is hot, submerge injured area in cold water. Seek medical attention for severe burns or if irritation persists.**Ingestion:** Seek medical attention immediately. Only induce vomiting at the instruction of a physician. If vomiting does occur, lower head below knees to avoid aspiration.**Inhalation:** Remove to fresh air. If breathing has stopped or is irregular, administer artificial respiration 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: Wear full protective clothing and 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.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Use personal protection recommended in Section 8.

Spill Management: Ventilate area. Contain release. Prevent material from entering storm sewers and waterways. Use appropriate collection 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 very well ventilated.

Reporting: Report spills to appropriate local 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. Avoid extended storage at high temperatures. Do not transfer to unmarked containers. Protect metal drums from direct sunlight and water.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use only in a well-ventilated area

Personal Protective Equipment:

Eye/Face Protection: Safety glasses, chemical type goggles or face shield recommended

Skin Protection: Synthetic rubber (nitrile) protective covers (boots, aprons, gloves) should be worn. 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 (before use): Light colored liquid

Odor: Light solvent odor

pH: NA

Density: 8.0 lb/gal @ 60°F (16°C)

Flashpoint: > 330°F (166°C) Closed Cup

Vapor Pressure: <1mm @70F (21.1°C)

Vapor Density (Air = 1): >1

Evaporation Rate (BuAc = 1): <1

Boiling Point: 638°F (337°C)

Solubility: Insoluble in water.

Freezing Point: Does not freeze

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: May form carbon monoxide with incomplete combustion

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity: Not determined

Other: This product has been shown to damage red blood cells or blood forming organs and has caused anemia in laboratory animals.

SECTION 12 ECOLOGICAL INFORMATION

Environmental Toxicity: Product is insoluble in water. Keep material from entering sewers or surface water.

Biodegradability: Product is not biodegradable

SECTION 13 DISPOSAL CONSIDERATIONS

New, unused product does not meet the criteria of a hazardous waste under RCRA regulations. Used material may be classified as a hazardous waste due to byproducts of degradation that could include various aromatic compounds. Used material should be analyzed before disposal.

SECTION 14 TRANSPORT INFORMATION**US DOT:** Not regulated **IATA:** Not regulated**TDG:** Not regulated **IMDG:** Not regulated**SECTION 15 REGULATORY INFORMATION****United States**

RCRA Hazardous Waste Number and Classification: Not applicable for unused product
TSCA Inventory Status: Included
SARA Title III Section 302/304: Not subject to reporting
SARA Title III Section 311: Non hazardous
SARA Title III Section 313 and 40 CFR 372: 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.

States Right to Know Regulations

Connecticut	Massachusetts
Florida	New Jersey
Illinois	Pennsylvania
Michigan	Rhode Island
Louisiana	

Canada

Domestic Substances List: Listed
WHMIS Classification: Not controlled

International Inventories:

Australia (AICS)	Japan (ENCS)
Europe (EINECS)	

SECTION 16 OTHER INFORMATION**Recommended Use:** Heat transfer agent**Date of Revision:** 2/18/2011**Reason for Revision:** Physical properties revision

NFPA RATINGS: Health: 1 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
NFPA	-	Nat'l Fire Protection Association	DOT	-	Department of Transportation
<	-	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.