

SAFETY DATA SHEET

1. Identification of the substance or mixture and of the supplier

Product identifier

Product name: PARATHERM™ LR

Additional identification

Chemical name: Petroleum naphtha

Recommended use and restriction on use

Recommended use: Heat Transfer Fluid
Restrictions on use: Lubricating oils; Hydraulic fluid additive

Details of the supplier of the safety data sheet

Supplier

Company Name: PARATHERM
A DIV. OF THE LUBRIZOL CORPORATION
Address: 2009 Renaissance Boulevard
King of Prussia, PA 19406
US
Telephone: 610-941-4900

Emergency telephone number:

FOR TRANSPORT EMERGENCY CALL CHEMTREC (+1)703 527 3887, OR WITHIN USA 800 424 9300

2. Hazard(s) identification

GHS classification of substance or mixture, and national or regional information:

Physical Hazards

Flammable liquids Category 4

Health Hazards

Aspiration Hazard Category 1

GHS label elements

Hazard symbol(s):



Signal Word: Danger

Hazard Statement(s): Combustible liquid.
May be fatal if swallowed and enters airways.

Precautionary

statement(s):

- Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Response:** IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. In case of fire: Use CO2, dry chemical or foam to extinguish. Water can be used to cool and protect exposed material.
- Storage:** Store locked up.
- Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: None.

3. Composition/Information on Ingredients

Mixtures

Chemical name	CAS number	Percent by Weight
Petroleum naphtha	64742-48-9	>60%
Hydrocarbons, C12-C16, isoalkanes, cyclics, less than 2% aromatics	64742-47-8	10 - 30%

4. First aid measures

General: For advice, contact a Poisons information Centre (Phone eg Australia 131 126; New Zealand 03 4747 000) or a doctor (at once).

Description of first aid measures

- Inhalation:** Remove exposed person to fresh air if adverse effects are observed.
- Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance. Remove contact lenses, if present and easy to do. Continue rinsing.
- Skin Contact:** Take off contaminated clothing and wash before re-use. Wash with soap and water. If skin irritation occurs, get medical attention.
- Ingestion:** Do NOT induce vomiting. Aspiration of material due to vomiting can cause chemical pneumonitis which can be fatal. If vomiting occurs naturally, the casualty should lean forward to reduce the risk of aspiration. Rinse mouth. Immediately call a POISON CENTER/doctor. If swallowed, do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed:

See section 11.

Indication of any immediate medical attention and special treatment needed

Treatment:

Treat symptomatically. Not relevant.

5. Fire-fighting measures

General Fire Hazards:

Move containers from fire area if you can do so without risk.

Extinguishing media

Suitable extinguishing media:

CO2, Dry chemical or Foam. Water can be used to cool and protect exposed material.

Unsuitable extinguishing media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazard arising from the chemical:

Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations. Vapors may travel considerable distance to a source of ignition and flash back. Water may cause splattering. Container may rupture on heating. A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for additional information.

Advice for firefighters

Special fire fighting procedures:

No data available.

Special protective equipment for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Hazchem Code:

•3Y

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Environmental Precautions:

Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up:

In case of leakage, eliminate all ignition sources. Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas.

Reference to other sections:

See sections 8 and 13 for additional information.

7. Handling and Storage:

Precautions for safe handling:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment.
Maximum Handling Temperature:	Not determined.
Conditions for safe storage, including any incompatibilities:	Keep cool. Store in a well-ventilated place. Do not store near potential sources of ignition.
Maximum Storage Temperature:	Not determined.

8. Exposure Controls/Personal Protection

Control Parameters: Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Hydrocarbons, C12-C16, isoalkanes, cyclics, less than 2% aromatics - Non-aerosol. - as total hydrocarbon vapor	TWA	200 mg/m ³	US. ACGIH Threshold Limit Values (02 2012)
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	Maximum allowable concentration:	50 ppm 300 mg/m ³	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG) (2011)
Hydrocarbons, C12-C16, isoalkanes, cyclics, less than 2% aromatics - Respirable aerosol fraction	Maximum allowable concentration:	5 mg/m ³	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG) (2015)
Hydrocarbons, C12-C16, isoalkanes, cyclics, less than 2% aromatics - Vapor.	Maximum allowable concentration:	50 ppm 350 mg/m ³	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG) (2015)

Exposure controls

Appropriate engineering controls:	No special requirements under ordinary conditions of use and with adequate ventilation.
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Individual protection measures, such as personal protective equipment

General information:	Use personal protective equipment as required.
Eye/face protection:	Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.

Skin Protection
Hand Protection:

Use nitrile or neoprene gloves. Use good industrial hygiene practices. In case of skin contact, wash hands and arms with soap and water.

Other:

Wear apron or protective clothing in case of contact.

Respiratory Protection:

A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Under normal use conditions, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

Hygiene measures:

Observe good industrial hygiene practices. When using do not smoke.

9. Physical and Chemical Properties
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Information on basic physical and chemical properties
Appearance

Physical state:	liquid
Form:	liquid
Color:	Colorless to white

Odor: Odorless

Odor Threshold: No data available.

pH: No data available.

Freezing point: No data available.

Boiling Point > 203 °C

Flash Point: > 63 °C (Tagliabue Closed Cup)

Evaporation Rate: < 1 n-butyl acetate=1

Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability Limit - Upper (%): No data available.

Flammability Limit - Lower (%): No data available.

Vapor pressure < 1 torr (21.1 °C)

Vapor density (air=1) > 1

Relative density 0.76 (15.56 °C)

Solubility(ies)

Solubility in Water: Insoluble in water

Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available.

Autoignition Temperature: No data available.

Decomposition Temperature: No data available.

Viscosity: No data available.

Explosive properties: No data available.

Oxidizing properties: No data available.

Pour Point Temperature: No data available.

Other information**Minimum ignition temperature:** > 260 °C**10. Stability and Reactivity**

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Will not occur.
Conditions to avoid:	Heat, sparks, flames.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.

11. Toxicological Information**Information on likely routes of exposure**

Inhalation:	No data available.
Ingestion:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.

Information on toxicological effects**Acute toxicity****Oral****Product:** Not classified for acute toxicity based on available data.**Dermal****Product:** Not classified for acute toxicity based on available data.**Inhalation****Product:** Not classified for acute toxicity based on available data. High concentrations may cause headaches, dizziness, nausea, behavioral changes, weakness, drowsiness and stupor.**Skin Corrosion/Irritation:****Product:** Remarks: Causes mild skin irritation.**Serious Eye Damage/Eye Irritation:****Hydrocarbons, C11-C13, isoalkanes, <2% aromatics** Classification: Not irritating (Measured); Rabbit.

Hydrocarbons, C12-C16,
isoalkanes, cyclics, less than 2%
aromatics

Classification: Not irritating (Literature); Rabbit.

Respiratory sensitization:

No data available

Skin sensitization:

Hydrocarbons, C11-C13,
isoalkanes, <2% aromatics

Classification: Not a skin sensitizer. (Measured)

Hydrocarbons, C12-C16,
isoalkanes, cyclics, less than 2%
aromatics

Classification: Not a skin sensitizer. (Literature)

Specific Target Organ Toxicity - Single Exposure:

Hydrocarbons, C11-C13,
isoalkanes, <2% aromatics

May cause irritation to the mucous membranes and upper
respiratory tract.

Aspiration Hazard:

Product:

May be fatal if swallowed and enters airways.

Other effects:

Chronic Effects

Carcinogenicity:

No data available

Germ Cell Mutagenicity:

Hydrocarbons, C12-C16,
isoalkanes, cyclics, less than 2%
aromatics

In vitro mutagenicity tests have been negative.

Hydrocarbons, C11-C13,
isoalkanes, <2% aromatics

In vitro and in vivo genetic toxicity studies were negative.

Reproductive toxicity:

No data available

Specific Target Organ Toxicity - Repeated Exposure:

No data available

12. Ecological Information

Ecotoxicity

Fish

Hydrocarbons, C11-C13,
isoalkanes, <2% aromatics

LC 50 (Rainbow Trout, 4 d): > 1,000 mg/l

Hydrocarbons, C12-C16,
isoalkanes, cyclics, less than 2%
aromatics

LC 50 (Oncorhynchus mykiss, 4 d): > 788,000 mg/l

Aquatic InvertebratesHydrocarbons, C11-C13,
isoalkanes, <2% aromaticsEC 50 (Water flea (Daphnia magna), 2 d): > 1,000 mg/l
NOEC (Water flea (Daphnia magna), 21 d): > 1 mg/lHydrocarbons, C12-C16,
isoalkanes, cyclics, less than 2%
aromatics

EC 50 (Water Flea (Daphnia Magna), 2 d): > 1,000 mg/l

Toxicity to Aquatic PlantsHydrocarbons, C11-C13,
isoalkanes, <2% aromaticsEC 50 (Algae (Pseudokirchneriella subcapitata), 3 d): > 1,000 mg/l
NOEC (Algae (Pseudokirchneriella subcapitata), 3 d): 1,000 mg/lHydrocarbons, C12-C16,
isoalkanes, cyclics, less than 2%
aromatics

EC 50 (Algae (Pseudokirchneriella subcapitata), 3 d): > 1,000 mg/l

Toxicity to soil dwelling organisms

No data available

Sediment Toxicity

No data available

Toxicity to Terrestrial Plants

No data available

Toxicity to Above-Ground Organisms

No data available

Toxicity to microorganisms

No data available

Persistence and Degradability**Biodegradation**Hydrocarbons, C11-C13,
isoalkanes, <2% aromatics

OECD TG 301 F, 89.8 %, 28 d, Readily biodegradable

Hydrocarbons, C12-C16,
isoalkanes, cyclics, less than 2%
aromatics

OECD TG 301 F, 89.8 %, 28 d, Readily biodegradable

Bioaccumulative potential**Bioconcentration Factor (BCF)**

No data available

Partition Coefficient n-octanol / water (log Kow)Hydrocarbons, C12-C16,
isoalkanes, cyclics, less than 2%
aromatics

Log Kow: > 4 (estimated)

Mobility:

No data available

Other adverse effects

No data available

13. Disposal Considerations

Disposal instructions: Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty container contains product residue which may exhibit hazards of product.

Contaminated Packaging: Container packaging may exhibit hazards.

14. Transport Information

IATA

Not regulated.

IMDG

Not regulated.

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

None known.

Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. For transportation, steps must be taken to prevent load shifting or materials falling, and all relating legal statutes should be obeyed. Review classification requirements before shipping materials at elevated temperatures.

15. Regulatory Information

Inventory Status

Australia (AICS)

All components are in compliance with chemical notification requirements in Australia.

Canada (DSL/NDSL)

All substances contained in this product are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List (DSL) or are exempt.

China (IECSC)

All components of this product are listed on the Inventory of Existing Chemical Substances in China.

European Union (REACH)

To obtain information on the REACH compliance status of this product, please e-mail REACH@SDSInquiries.com.

Japan (ENCS)

All components are in compliance with the Chemical Substances Control Law of Japan.

Korea (ECL)

All components are in compliance in Korea.

New Zealand (NZIoC)

All components are in compliance with chemical notification requirements in New Zealand.

Philippines (PICCS)

All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

Switzerland (SWISS)

All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

Taiwan (TCSCA)

All components of this product are listed on the Taiwan inventory.

United States (TSCA)

All substances contained in this product are listed on the TSCA inventory or are exempt.

The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.

Safety, health and environmental regulations/legislation specific for the substance or mixture:

Poison Schedule Number: Poisons schedule number not allocated

16. Other Information

Key literature references and sources for data: No data available.

Other information: Contact supplier (see Section 1)

Issue Date: 13.08.2019

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