



SAFETY DATA SHEET

LION PETROLEUM PRODUCTS SDN BHD (139157-H)

A Member of The Lion Group

SECTION 1 IDENTIFICATION OF THE HAZARDOUS CHEMICAL AND OF THE SUPPLIER

GHS product identifier: **HI-REV THERMA Oil**
 Product type: Industrial Oil
 Use of the substances/mixture: For use in suitable application only. Please consult product data sheet or company representative.
 Supplier: Davor Sdn Bhd
 Address: No.32, Jalan Puteri
 5/16, Bandar Puteri
 Puchong,
 47000 Puchong, Selangor, Malaysia
 Telephone No: +6012 291 9166
 Preparation /Revision Date: 28 April 2015

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture: Not Classified.

GHS label elements

Signal Words: Not classified
 Hazard statements: No known significant effects or critical hazards
 Precautionary statements:
 Prevention Not applicable
 Response Not applicable
 Storage Not applicable
 Disposal Not applicable

Other hazards which do not result in classification: Defatting to the skin

SECTION 3 COMPOSITION AND INFORMATION OF THE INGREDIENTS OF THE HAZARDOUS CHEMICAL

Substance/Mixture: Mixture
 Mineral base oil (<3% IP 346 DMSO extract) and proprietary additives

Ingredient	CAS No.	% weight
Base oil - unspecified	Mixture	>60%

There are no ingredient present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4 FIRST-AID MEASURES

Inhalation: Remove exposed person to fresh air.
 Skin Contact: Immediately remove contaminated clothing. Wash skin thoroughly with soap and water. Get immediate medical attention if irritation persists. Wash contaminated clothing before reuse and discard shoes and others leather materials saturated with the material.
 Eye Contact: In case of contact with eyes, flush thoroughly with water for at least 15 minutes. Get immediate medical assistance.
 Ingestion: Do NOT induce vomiting. If conscious, give 2 glass of water. Get immediate medical assistance.

Most important symptoms/effects, acute and delayed

See section 11 for more detailed information on health effects and symptoms.



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Indication of immediate medical attention and special treatment needed, if necessary

Specific treatments	Not specific treatment
Notes to physician	Treatment should in general be symptomatic and directed to relieving any effects
Protection of first-aiders	No action shall be take involving any personal risk or without suitable training

SECTION 5 FIRE FIGHTING MEASURES

Extinguisher media

Suitable Extinguishing media:	Carbon dioxide, foam or dry chemical.
Unsuitable Extinguisher media:	Do not use water jet
Specific hazards arising from the chemical:	In a fire or heated, a pressure increase will occur and the container may burst
Hazardous thermal decomposition products	Combustion products may include the following: Carbon dioxide Carbon monoxide
Special Protective equipment for fire-fighters:	Wear full protective equipment including self-contained breathing apparatus (SCBA) with a full face-piece, coat, pants, gloves and boots.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Methods and material for containment and clearing up:	Stop leak and contain spillage. Pick up liquid or recycle/disposal. Residual liquid can be absorbed on inert material. Prevent entry into waterways, drain and sewer.
Environmental precautions:	Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal.
Personal precautions, protective equipment and emergency procedure:	Personal Protective Equipment must be worn, see Personal Protection Section (see section 8) for PPE recommendations.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling:	Keep containers closed when not in use. Do not discharge into drains or the environment, dispose to an authorized waste collection point. Use appropriate containment to avoid environment contamination. Wash thoroughly after handling. Empty container contains product residue which may exhibit hazards of product.
Conditions for storage:	Store drums in area with secondary containment. Storage area should be covered to prevent rain water from entering. Odorous and toxic fumes may form from the decomposition of this product if stored at temperatures in excess of 45 deg C for extended periods of time.

SECTION 8 EXPOSURE CONTROL AND PERSONAL PROTECTION

Control parameters	None
Engineering Controls:	Good ventilation should be sufficient to control worker exposure to airborne contaminants. Use local exhaust ventilation to control mists or vapors to keep worker exposure below any recommended or statutory limits.
PERSONAL PROTECTIVE EQUIPMENT	
Eye Protection:	Chemical goggles or faceshield.
Respiratory Protection:	Use NIOSH/MSHA approved full face respirator with an organic vapor cartridge if exceed the recommended exposure limit. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up site.
Protective Clothing:	Long sleeve shirt is recommended. Wear a chemically protective apron when contact with material may occur. Use chemically protective boots when necessary to avoid contaminating shoes. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction.



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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Brown
Odor:	Mild petroleum oil
pH:	Not Applicable
Kinematics viscosity @40°C:	28.0 – 32.0 cSt
Kinematics viscosity @100°C:	5.4 cSt
Flash Point:	Min 200°C
Density (g/ml):	0.865
Melting point:	Not Applicable
Boiling point:	Not Applicable
Evaporation rate:	Not Available
Flammability:	Not Available
Vapor pressure:	Not Available
Vapor density:	Not Available
Explosive properties:	Not Available
Auto-ignition temperature:	Not Available
Vapor density:	Not Available
Oxidizing properties:	Not Applicable
Decomposition temperature:	Not Available
Solubility in water:	Insoluble

SECTION 10 STABILITY AND REACTIVITY

Reactivity:	No specific test data available for this product. Refer to conditions to avoid and incompatible materials for additional information.
Chemical Stability:	Material is normally stable at room temperature and pressure. See the Handling and Storage Section for further details.
Conditions to avoid:	Prolonged exposure to elevated temperature. Avoid all possible sources of ignition.
Incompatible materials:	Strong oxidizing agent and acids.
Hazardous decomposition products:	None under normal use and storage.
Possibility of hazardous reactions:	None under normal conditions of storage and use.

SECTION 11 TOXICOLOGY INFORMATION

ACUTE TOXICITY

Inhalation:	No data available to indicate product or components may be a toxic inhalation hazard.
Skin Contact:	Prolonged or repeated skin contacts can defat the skin and lead to irritation, cracking and/or dermatitis. Symptoms may include, redness, edema, drying, defatting and cracking of the skin.
Eye Contact:	Non-irritant to eyes
Ingestion:	Ingestion of large quantities may cause nausea and/or diarrhea

Delayed and immediate effects and also chronic effects from short and long term exposure

Potential chronic health effects

General	No data available
Inhalation	No data available
Ingestion	No data available
Skin contact	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis
Eye contact	No data available
Carcinogenicity	No data available
Mutagenicity	No data available
Teratogenicity	No data available



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Developmental effects	No data available
Fertility effects	No data available
Other information	Not available

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:	No information available
Bioaccumulation potential:	This product is not expected to be bioaccumulation through food chains in the environment.
Persistence and Degradability	Expected to be biodegradable
Mobility in soil:	Spillage may penetrate the soil causing ground water contamination
Other adverse effects	No known significant effects or critical hazards

SECTION 13 DISPOSAL CONSIDERATIONS

Product disposal & contaminated packaging:	Treatment, storage, transportation and disposal of waste must be in accordance with applicable environmental protection and waste disposal legislation and any regional local regulations. Dispose of surplus and non-recyclable product via a licensed waste disposal contractor. Disposal of packaging or containers in accordance with local, regional, national and international regulations.
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SECTION 14 TRANSPORT INFORMATION

ICAO/IATA:	Not Regulated.
ADR Class:	Not Regulated.
IMDG:	Not Regulated.

SECTION 15 REGULATORY INFORMATION

International Inventory:

Australia	All components are listed or exempted
Canada	All components are listed or exempted
China	All components are listed or exempted
Japan	All components are listed or exempted
Philippines	All components are listed or exempted
Republic of Korea	All components are listed or exempted
Taiwan	All components are listed or exempted
United States	All components are listed or exempted

SECTION 16 OTHER INFORMATION

The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of Davor's knowledge; however no warranty whatsoever, express or implied of merchantability or fitness for the particular purpose, regarding the accuracy of such data or the results to be obtained from the use thereof. And assumes no responsibility for injury to the recipient or to third persons or for any damage to any property and recipient assumes all such risks.