

# Material Safety Data Sheet

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Infosafe No™ LPXKV	Issue Date : August 2009	ISSUED by PENRITEO
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Product Name **HI TEMP GREASE**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	HI TEMP GREASE
Product Code	HTGR
Company Name	PENRITE OIL COMPANY P/L (ABN 25005 001 525)
Address	88 Lewis Road Wantirna South Victoria 3152 Australia
Emergency Tel.	03 9801 0877 B.H
Telephone/Fax Number	Tel: 03 9801 0877
Recommended Use	Lithium complex grease for automotive and industrial applications.

## 2. HAZARDS IDENTIFICATION

Hazard Classification	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Hazard classification according to the criteria of NOHSC. Dangerous goods classification according to the Australia Dangerous Goods Code.
Safety Phrase(s)	S24/25 Avoid contact with skin and eyes.
Other Information	High Pressure Applications: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first but within a few hours, tissue becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis. If left untreated, could result in disfigurement or amputation of the affected part. Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimise tissue loss and prevent or limit permanent damage. Note that the high pressure may force the product a considerable distance from the entry wound.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on Composition Ingredients	Contains mixture of highly refined paraffinic distillates and additives.		
	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Residual oils (petroleum), solvent dewaxed	64742-62-7	30-60 %
	Distillates (petroleum), solvent dewaxed heavy paraffinic	64742-65-0	30-60 %
	Zinc dialkyl dithiophosphate	68649-42-3	<10 %
	Other ingredients determined not to be hazardous		To 100%
Other Information	Note: Ingredients that have been assigned Note L of the Worksafe designated List of Hazardous Substances, have been tested in accordance with IP 346. This product contains less than 3% polyaromatics and is therefore non hazardous.		

## 4. FIRST AID MEASURES

Inhalation	If exposed to excessive levels of material in the air, move the exposed person to fresh air. Keep at rest. Seek medical attention if coughing or respiratory discomfort occurs.
Ingestion	Do not induce vomiting. Wash out mouth and lips thoroughly with water. Seek medical attention.
Skin	Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention.

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<b>Eye</b>	Should grease be accidentally injected under the skin no matter how minor, seek immediate medical attention. If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed off completely. Seek medical attention.
<b>First Aid Facilities</b>	Eye wash and normal wash room facilities.
<b>Advice to Doctor</b>	Treat symptomatically.
<b>Other Information</b>	High pressure injection of material can cause severe injury. Failure to debride the wound of all residual material can result in disfigurement, loss of function, or may require amputation of the affected area.

## 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Use water fog, dry chemical, foam, or carbon dioxide. Do NOT use water jet. Water or foam may cause frothing. Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapours and to provide protection for persons attempting to stop the leak.
<b>Hazards from Combustion Products</b>	Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, oxides of sulphur, oxides of phosphorus, and unidentified organic compounds will be evolved when this material undergoes combustion.
<b>Specific Hazards</b>	Combustible grease. This product will burn if exposed to fire.
<b>Precautions in connection with Fire</b>	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion, or oxygen deficiency. Water spray may be used to cool down heat-exposed containers. If safe to do so, remove containers from path of fire.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Other Information</b>	Remove sources of ignition. Stop the source of the leak or release and contain spill if possible. Ventilate area. Use respirator and protective clothing to minimise exposure. Cover spill with a generous amount of inert absorbent. Collect and place in a labelled disposable container. Scrub contaminated area with detergent and water using a stiff broom. Pick up liquid with additional absorbent and place in a labelled disposable container. Prevent contamination of groundwater or surface water. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.
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## 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	Wear suitable protective clothing, gloves and eye/face protection when handling and using. Use in designated areas with adequate ventilation. Avoid breathing in vapours, mist or fumes. Keep containers closed when not in use. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities. Misuse of empty containers can be hazardous. Do not cut, weld, heat or drill containers. Residue may ignite with explosive violence if heated sufficiently. Do not pressurise or expose to open flame or heat. Keep container closed
<b>Conditions for Safe Storage</b>	Store in a cool, dry, well ventilated area away from sources of ignition. This product should be stored away from strong oxidising agents and acids. Periods of exposure to high temperatures should be minimised. Water contamination should be avoided. For information on the design of the store-room reference should be made to Australian Standard AS1940, The storage and handling of flammable and combustible liquids. Reference should also be made to any applicable Commonwealth, State or Territory regulations.
<b>Storage Regulations</b>	COMBUSTIBLE LIQUID - CLASS C2, Flashpoint >150°C. Classified as a Class C2 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS1940-2004 The storage and handling of flammable and combustible liquids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>National Exposure Standards</b>	No exposure standards have been established for this material by the National Occupational Health And Safety Commission (NOHSC), Australia. However,
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over-exposure to some industrial chemicals may result in adverse effects on health and enhancement of pre-existing medical conditions and/or allergic reactions, and should be kept to the least possible levels. The exposure standards for oil mist as established by NOHSC are as follows:

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Oil mist, refined mineral	-	5	-	-

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

**Engineering Controls** Where vapours or mists are generated and exposure standards are exceeded, the use of a local exhaust ventilation system, drawing vapours/mists away from workers' breathing zone, should be used.

**Respiratory Protection** Where vapours, mists or spray is generated and exposure standards are exceeded, select and use respirators in accordance with AS/NZS 1715/1716. The use of the following is recommended: Approved respirator with organic vapour filter. Filter capacity and respirator type depends on exposure levels for each individual circumstance.

**Eye Protection** If possibility of eye contact exists safety glasses with side shields or goggles should be worn. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

**Hand Protection** Impervious PVC or nitrile gloves should be worn to prevent skin contact. The gloves should conform to AS/NZS 2161: Occupational Protective Gloves.

**Body Protection** Suitable work wear should be worn to protect personal clothing, eg cotton overalls buttoned at neck and wrist. When large quantities are handled the use of plastic aprons and rubber boots is recommended. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Smooth blue tacky grease.

**Melting Point** Not available

**Boiling Point** >316°C

**Solubility in Water** Insoluble

**pH Value** Not applicable

**Vapour Pressure** Not available

**Vapour Density (Air=1)** >1

**Evaporation Rate** <1 (n-Butyl acetate=1)

**Viscosity** 220 cSt at 40°C

**Density** 0.90 g/cm<sup>3</sup> at 15°C

**Flash Point** >200°C (ASTM D-93)

**Flammability** Combustible substance.

**Auto-Ignition Temperature** Not available

**Flammable Limits - Lower** Not available

**Flammable Limits - Upper** Not available

**Other Information** Drop Point: >260°C

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under normal conditions of storage and handling.

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<b>Incompatible Materials</b>	Strong oxidising agents and strong acids.
<b>Hazardous Decomposition Products</b>	Aldehydes and ketones, oxides of carbon, oxides of sulphur and oxides of phosphorus.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information</b>	LD50 (Oral, Rat): >2000 mg/kg LD50 (Dermal, Rabbit): >2000 mg/kg
<b>Inhalation</b>	Inhalation of vapours or mists generated in confined, poorly ventilated areas or at elevated temperatures, may cause respiratory system irritation, other pulmonary effects, headache, dizziness and nausea.
<b>Ingestion</b>	May cause irritation of the gastrointestinal tract with nausea, vomiting and diarrhoea if swallowed. Aspiration may occur during swallowing or vomiting resulting in possible lung damage.
<b>Skin</b>	May cause minor irritation on brief contact. Repeated or prolonged contact may dry and defat the skin, resulting in skin irritation and possible dermatitis. Injection of grease under the skin may result in serious injury. Seek medical attention at once.
<b>Eye</b>	Eye contact may cause temporary mild irritation with stinging, blurring and tearing.
<b>Chronic Effects</b>	Prolonged or repeated contact may result in skin irritation leading to dermatitis. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty in breathing.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Not available
<b>Persistence / Degradability</b>	Not available
<b>Mobility</b>	Not available
<b>Bioaccumulative Potential</b>	Not available
<b>Environ. Protection</b>	Do not allow product to enter drains, waterways or sewers.

## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal</b>	Dispose of waste according to federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.
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## 14. TRANSPORT INFORMATION

<b>Transport Information</b>	Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code). Note: Combustible materials may be classified as Class 9: miscellaneous dangerous goods if transported with flammable materials. See ADG code for further information.
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## 15. REGULATORY INFORMATION

<b>Regulatory Information</b>	Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC). Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
<b>Poisons Schedule</b>	Not Scheduled
<b>AICS (Australia)</b>	All constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

## 16. OTHER INFORMATION

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**or last revision of** Supersedes: September 2008

**MSDS**

**Contact** TITLE: Technical and Marketing Director

**Person/Point** TELEPHONE NUMBER: 03 9801 0877 B.H

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