

# MATERIAL SAFETY DATA SHEET

## SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**PRODUCT NAME:** High Temperature Wheel Bearing Grease

**PRODUCT CODE:** HTGR

**RECOMMENDED USE:** Lithium complex grease for automotive and industrial applications.

**SUPPLIER NAME:** PENRITE OIL Company Pty Ltd (ABN: 25005 001 525)

**ADDRESS:** 88 Lewis Road, Wantirna South, Victoria, 3152

**TELEPHONE NUMBER:** 03 9801 0877

**EMERGENCY TEL. NUMBER:** 03 9801 0877 Business Hours.

## SECTION 2 – HAZARDS IDENTIFICATION

**Statement of Hazardous Nature of Product:** This product is not classified as Hazardous according to criteria of the National Occupational Health and Safety Commission (SafeWork Australia). This product is not classified as dangerous goods according to the ADG Code.

## SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	PROPORTION % W/W
Residual oils, petroleum, solvent dewaxed	64742-62-7	30% - < 60%
Distillates, petroleum, solvent dewaxed heavy paraffinic	64742-65-0	30% - < 60%
Distillates, petroleum, solvent dewaxed light naphthenic	64742-64-9	< 10%
Complex mixture of non-hazardous additives	Mixture	To 100%

## SECTION 4 – FIRST AID MEASURES

**INGESTION:** Rinse mouth out and drink a glass of water. If a large quantity is ingested seek medical attention. It may be necessary to induce vomiting, taking extreme care that the person does not aspirate into the lungs. If irritation develops or persists or vomiting has occurred after ingestion, consult a doctor.

**EYE:** If in eyes, hold eyelids apart and flush the eye immediately with large amounts of running water. Continue flushing for at least 15 minutes or until advised to stop by a doctor. Check for contact lenses. If there are contact lenses, these should be removed under supervision. After flushing, if irritation develops or persists, seek medical assistance.

**SKIN CONTACT:** If skin or hair contact has occurred remove any contaminated clothing, wash skin or hair thoroughly with soap and water. If irritation develops or persists, consult a Doctor. High pressure injection through the skin requires urgent medical attention for possible incision, irrigation and/or debridement. Contact with molten material will require treatment by a physician for burns. Leave the material on the skin for removal by the doctor.

**INHALATION:** If affected, remove the patient from contaminated area, when safe to do so. Lay patient down in a well-ventilated area and reassure them. If not breathing, provide artificial respiration and seek immediate medical assistance. If unconscious, place in a recovery position and seek immediate medical assistance.

**FIRST AID FACILITIES:** Eye wash fountain and safety showers are recommended.

**ADVICE TO DOCTOR:** Treat symptomatically.

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## SECTION 5 – FIRE FIGHTING MEASURES

<b>FIRE:</b>	This product is not flammable under conditions of use. Is a combustible semi-solid that will burn if preheated to decomposition. Keep storage tanks, pipelines, fire exposed surfaces, etc. cool with water spray.
<b>EXPLOSION:</b>	No information to indicate that the product is an explosion hazard. Extinguish all sources of flame or spark. Closed containers may explode when exposed to extreme heat. Do not cut, weld, drill or pressurise empty metal containers.
<b>FIRE EXTINGUISHING MEDIA:</b>	Use extinguishing media appropriate for surrounding fire. Use carbon dioxide, foam or dry chemical. Spray down fumes resulting from fire. Avoid using full water jet directed at residual material that may be burning. Water may cause splattering.
<b>COMBUSTION HAZARDS:</b>	Combustion may produce oxides of carbon, sulphur, phosphorus, nitrogen and zinc and small amounts of lithium and boron, smoke, irritating vapours.
<b>PROTECTIVE EQUIPMENT:</b>	In the event of a fire, wear full protective clothing and self-contained breathing equipment with full-face piece operated in the pressure demand or other positive pressure mode.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

<b>PERSONAL PROTECTION:</b>	Wear gloves, glasses/goggles or a face shield for high temperature or pressure operations, boots and full-length clothing. During routine operation a respirator is not required. However, if mists or vapours are generated, an approved organic vapour/particulate respirator is required.
<b>EMERGENCY PROCEDURES:</b>	Ventilate area and extinguish and/or remove all sources of ignition. Spills are easy to contain because of the nature of the product. Caution: The spilled product will be slippery. Shovel the product into metal containers and follow local and state regulations for the disposal of waste. Do not allow product to enter drains, surface water, sewers or watercourses - inform local authorities if this occurs.
<b>CLEANING PROCEDURES:</b>	Having contained the spill, collect all material quickly as mentioned above. Personnel must wear gloves, goggles or glasses, boots and full-length clothing during cleaning procedures. Wash contaminated area and objects with detergent and water after spill has been cleared. Rinse the cleaned area with water.

## SECTION 7 – HANDLING AND STORAGE

<b>PRECAUTIONS FOR SAFE HANDLING:</b>	Avoid contact with the product by using appropriate protective equipment such as gloves, glasses or goggles or a face shield for high temperature or pressure operations and full-length clothing. Eating, drinking, and smoking should be prohibited in the area where this material is handled, stored and processed. Workers should follow good personal hygiene practices, such as washing hands before eating, drinking and smoking. Keep containers tightly closed when not in use. Prevent product from entering waterways, drains or sewers.
<b>CONDITIONS FOR SAFE STORAGE:</b>	Classified as a combustible semi-solid that will burn if preheated. Store in a well ventilated area away from direct sunlight, ignition sources, oxidising agents, foodstuffs and clothing. Keep containers closed when not in use. Do not store in plastic containers unless approved for the application.
<b>INCOMPATIBILITIES:</b>	May react with strong oxidizing substances including strong acids.

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## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>AIRBORNE EXPOSURE:</b>	Exposure standards for the product have not been established. However, if the material is subjected to elevated temperatures, and oil mists or vapours are generated the following Exposure Standard should be observed: Time Weighted Average (TWA): 5 mg/m <sup>3</sup> Short Term Exposure Limit (STEL): 10 mg/m <sup>3</sup>
<b>VENTILATION SYSTEMS:</b>	Special ventilation is not normally required. However, in the operation of certain equipment or at elevated temperatures mists or vapour may be generated and exhaust ventilation should be provided to maintain airborne concentration levels below the exposure standard.
<b>PERSONAL RESPIRATORS:</b>	During routine operation a respirator is not required. However, if mists or vapours are generated, an approved organic vapour/particulate respirator is required. Use respirators in accordance with AS 1715 and AS 1716.
<b>GLOVE TYPE:</b>	Wear gloves to provide hand protection. PVC, Nitrile or neoprene gloves are recommended.
<b>CLOTHING:</b>	During normal operating procedures, long sleeved clothing is recommended to avoid skin contact. Soiled clothing should be washed with detergent prior to re-use.
<b>EYE PROTECTION:</b>	Wear safety glasses/goggles to avoid eye contact when handling. If the product is used at elevated temperatures/pressures a full face shield is recommended.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	Smooth, purple tacky grease.
<b>ODOUR:</b>	Characteristic mild oil odour.
<b>VAPOUR DENSITY:</b>	No data available.
<b>VAPOUR PRESSURE (mmHg):</b>	No data available.
<b>DENSITY (g/mL @ 15°C):</b>	Typically 0.9.
<b>VISCOSITY (cSt @ 100°C):</b>	No data available.
<b>VISCOSITY (cSt @ 40°C):</b>	No data available.
<b>FLASHPOINT (°C):</b>	Typically > 200°C.
<b>FLAMMABILITY LIMITS (%):</b>	No data available.
<b>SOLUBILITY IN WATER(g/L):</b>	Insoluble in water.
<b>BOILING RANGE (°C):</b>	No data available.
<b>% VOLATILE-VOL/VOL:</b>	No data available.
<b>EVAPORATION RATE:</b>	No data available.
<b>pH:</b>	No data available.

## SECTION 10 – STABILITY AND REACTIVITY

<b>CHEMICAL STABILITY:</b>	Stable under recommended storage and handling conditions (see section 7).
<b>CONDITIONS TO AVOID:</b>	Observe the usual precautionary measures for handling chemicals. Do not heat the container or leave the container open when not in use.
<b>INCOMPATIBLES:</b>	May react with strong oxidizing substances including strong acids.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Combustion may produce oxides of carbon, sulphur, phosphorus, nitrogen and zinc and small amounts of lithium and boron, smoke, irritating vapours.
<b>HAZARDOUS REACTIONS:</b>	Keep away from strong oxidising agents. Hazardous polymerisation does not occur.

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## SECTION 11 – TOXICOLOGICAL INFORMATION

### HEALTH EFFECTS

#### **ACUTE:**

##### **SWALLOWED:**

This product is expected to have a low order of toxicity associated with it when ingested. It may cause slight irritation to the mouth, throat and digestive tract. Based upon assessment of similar products, the Acute Oral Toxicity is expected to be LD<sub>50</sub> (rat) >2000 mg/kg. During normal usage ingestion should not be a means of exposure.

##### **EYE:**

May be mildly irritating to the eyes. Symptoms may include localised burning, redness and tearing.

##### **SKIN:**

May be mildly irritating to the skin. High pressure injection through the skin, when using apparatus such as grease guns, can be highly irritating and may cause localised damage. Correct handling procedures incorporating appropriate protective clothing and gloves should minimise the risk of skin irritation.

##### **INHALED:**

No data to indicate a toxic inhalation hazard. Inhalation of vapours or mist (generated at elevated temperatures or by mechanical action) may cause irritation to the nose and throat.

##### **CHRONIC:**

Prolonged, repeated, long term exposure to the product via skin contact may lead to dryness and cracking or irritation of the skin. Observation of good work practices should minimise the potential for this to occur.

##### **TOXICITY DATA:**

There is no data on the product as a whole.

##### Immunotoxicity:

Not available.

##### Skin Sensitisation:

This product is not expected to be a skin sensitizer, based on the available data and the known hazards of the components.

Respiratory Tract Sensitisation: This product is not expected to be a respiratory tract sensitizer, based on the available data and the known hazards of the components.

##### Mutagenic:

This product is not expected to be a mutagen, based on the available data and the known hazards of the components.

##### Reproductive Toxicity:

This product is not expected to be a reproductive hazard, based on the available data and the known hazards of the components.

Teratogenicity/Embryotoxicity: This product is not expected to be a teratogen or an embryotoxin, based on the available data and the known hazards of the components.

##### Carcinogenicity:

Long term animal experiments have shown that any health risks are associated with the level of aromatic and polycyclic constituents in the product. These constituents are removed during the manufacturing process to a level at which no health risks are expected as a result of normal handling.

## SECTION 12 – ECOLOGICAL DATA

##### **ECOTOXICITY:**

There is no data available for the product as a whole. Based upon calculated values, the overall product would not be expected to be rated.

##### **PERSISTENCE & DEGRADABILITY:**

Based on the available data and the known hazards of the components and similar products the product is not expected to be readily biodegradable.

##### **MOBILITY:**

No information is available.

##### **ENVIRONMENTAL FATE:**

No information is available.

##### **BIOACCUMULATIVE**

##### **POTENTIAL:**

No information is available.

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## SECTION 13 – DISPOSAL CONSIDERATIONS

### DISPOSAL METHODS/ CONTAINERS:

Spilled product should be shovelled into a suitable waste container, such as a metal drum and then be treated as a solid waste. Follow state or local regulations for disposal of the waste. The product should not be released to the environment, so any unused material or contaminated containers should be disposed of as hazardous waste at an appropriate collection depot or be recycled wherever possible. Dispose of containers and unused contents in accordance with Federal, State and local requirements. Do not allow product to enter drains, sewers and watercourses.

## SECTION 14 – TRANSPORT INFORMATION

This product is not regulated according to the ADG Code.

<b>UN NUMBER:</b>	Not applicable
<b>PROPER SHIPPING NAME:</b>	Not applicable
<b>ADG CODE:</b>	Not applicable
<b>PACKAGING GROUP:</b>	Not applicable
<b>SPECIAL PROVISION:</b>	Not applicable
<b>HAZCHEM CODE:</b>	Not applicable

## SECTION 15 – REGULATORY INFORMATION

This product is not classified as Hazardous according to criteria of the National Occupational Health and Safety Commission (Safe Work Australia). All ingredients are on the AICS List.

## SECTION 16 – OTHER INFORMATION

**Date of MSDS Preparation:** 7<sup>th</sup> March 2011

**Revision:** 3.0

### ACRONYMS

<b>SUSMP</b>	Standard for the Uniform Scheduling of Medicines and Poisons
<b>ADG Code</b>	Australian Code for the Transport of Dangerous Goods by Road and Rail
<b>CAS Number</b>	Chemical Abstracts Service Registry Number
<b>UN Number</b>	United Nations Number
<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>R-Phrase</b>	Risk Phrases
<b>S-Phrase</b>	Safety Phrases
<b>HAZCHEM No</b>	An emergency action code of numbers and letters which gives information to emergency services
<b>NOHSC</b>	National Occupational Health and Safety Commission
<b>AICS</b>	Australian Inventory of Chemical Substances

## CONTACT POINT

<b>NAME:</b>	Tony Lawton
<b>TITLE:</b>	Technical Manager
<b>TELEPHONE NUMBER:</b>	(03) 9801 0877 Business Hours

All information contained in this Material Safety Data Sheet and the health, safety and environmental information are considered to be accurate to the best of our knowledge as of the issue date specified above. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the data and information contained in this data sheet.

Health and safety precautions and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The Company accepts no responsibility for any injury, loss or damage, resulting from abnormal use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.