

SAFETY DATA SHEET

Section 1 - PRODUCT IDENTIFIER/CHEMICAL IDENTITY

- 1.1 PRODUCT IDENTIFIER:** High Temperature Wheel Bearing Grease
- 1.2 PRODUCT CODE:** HTGR
- 1.3 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST:**
RELEVANT IDENTIFIED USES: Lithium complex grease for automotive and industrial applications
RESTRICTIONS ON USE: None known
- 1.4 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:**
SUPPLIER NAME: PENRITE OIL Company Pty Ltd (ABN: 25005 001 525)
ADDRESS (Australia): 110-116 Greens Rd, Dandenong South, VIC, Australia, 3175
TELEPHONE (Australia): 1300 736 748; +61 3 9801 0877; Fax 1800 736 748

ADDRESS (New Zealand): 75 Lady Ruby Dr, East Tamaki, Auckland, New Zealand, 2013
TELEPHONE (New Zealand): 0800 533 698; Fax 0800 533 698

EMAIL: tech@penriteoil.com (Aust and NZ)
- 1.5 EMERGENCY TELEPHONE:** Australia: 1300 736 748 New Zealand: 0800 533 698
Poisons information Centre: Australia: 131 126 New Zealand: 0800 764 766
- 1.6 HSNO APPROVAL NUMBER:** Not applicable
HSNO GROUP TITLE: Not applicable

Section 2 - HAZARD(S) IDENTIFICATION

- 2.1 CLASSIFICATION OF THE HAZARDOUS CHEMICAL:**
GHS CLASSIFICATION HAZARD CLASS AND CATEGORY: Under the model work Health and Safety Regulations, the product would not be classified as hazardous.
- 2.2 LABEL ELEMENTS INCLUDING PRECAUTIONARY STATEMENTS:**
SIGNAL WORD: Not Applicable
PICTOGRAMS: Not Applicable
HAZARD STATEMENTS: Not Applicable
PRECAUTIONARY STATEMENTS:
PREVENTION: Not Applicable
RESPONSE: Not Applicable
STORAGE: Not Applicable
DISPOSAL: Not Applicable
- 2.3 OTHER HAZARDS:** The mixture has a low order of toxicity associated with it. People with pre-existing skin conditions, such as eczema or dermatitis, should take precautions so as not to

exacerbate the condition. As for all chemical products, persons should not expose open wounds, cuts, abrasions or irritated skin to this material.

Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS	CONC (%W/W)	GHS	Code
Highly refined petroleum oils	mixture	<83	No data	
Lithium complex grease thickener	mixture	<22	No data	
Additives	mixture	<10	No data	
other ingredients		up to 100	Non hazardous	

Section 4 - FIRST AID MEASURES

4.1 DESCRIPTION OF NECESSARY FIRST AID MEASURES:

INGESTION: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

EYE: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

SKIN CONTACT: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

INHALATION: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

PROTECTION FOR FIRST AIDERS: No action shall be taken involving any personal risk or without suitable training.

FIRST AID FACILITIES: Eye wash fountain and safety showers are recommended in the area where the product is used.

4.2 MOST IMPORTANT SYMPTOMS & EFFECTS, BOTH ACUTE & DELAYED, CAUSED BY EXPOSURE:

ACUTE: No specific data available.

CHRONIC: No specific data available.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NECESSARY:

ADVICE TO DOCTOR: No specific data available.

Section 5 - FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

SUITABLE MEDIA: Use extinguishing media appropriate for surrounding fire. Use carbon dioxide, foam, dry chemical, water fog or alcohol foam.

UNSUITABLE MEDIA: Do not use water jet.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

COMBUSTION HAZARDS: No specific fire or explosion hazard. Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sulphur oxides, phosphorus oxides and metal oxide/oxides.

5.3 ADVICE FOR FIRE FIGHTERS

FIRE: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Flash point >200 °C.

HAZCHEM CODE: Not Applicable.

EXPLOSION: No indicative information of product being an explosive hazard. Closed containers may explode when exposed to extreme heat.

PROTECTIVE EQUIPMENT: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Section 6 - ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

PERSONAL PROTECTION: For small spills wear nitrile gloves, glasses/goggles, 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. For large spills, or in confined spaces, a full chemically resistant body suit is recommended and the atmosphere must be evaluated for oxygen deficiency. If in doubt about potential oxygen deficiency wear self-contained breathing apparatus.

CONTROL MEASURES: Ventilate area and extinguish and/or remove all sources of ignition. Stop the leak if safe to do so. **CAUTION:** The spilled product will be slippery. Avoid contact with the spilled material.

EMERGENCY PROCEDURES: In the event of a spill or accidental release, notify the relevant authorities in accordance with all applicable regulations.

6.2 ENVIRONMENTAL

PRECAUTIONS:

SPILL ADVICE: Do not allow product to enter drains, surface water, sewers or watercourses – inform local authorities if this occurs.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

CONTAINMENT: Contain the spill and absorb with a proprietary absorbent material, sand or earth. For large spills prepare a bund/barrier/dyke ahead of the spill to confine the spill and

allow later recovery. If there is the possibility of spills to enter drains, surface water, sewers or watercourses ensure bunding, or that drains are covered, to minimise the potential for this to occur.

CLEANING PROCEDURES: Having contained the spill, as mentioned above collect all material quickly and place used absorbent in suitable containers. Follow local regulations for the disposal of waste. For large spills that have been banded, the material can be pumped into vessels and returned for reprocessing or destruction. 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. Do not allow wash water or rinsings to enter drains, surface water, sewers or water courses.

Section 7 - HANDLING AND STORAGE, INCLUDING HOW THE CHEMICAL MAY BE SAFELY USED

7.1 PRECAUTIONS FOR SAFE HANDLING:

SAFE HANDLING: Avoid contact with the product by using appropriate protective equipment such as gloves, glasses or goggles and full-length clothing. Prevent small spills and leakage to avoid slip hazards. Properly dispose of any contaminated rags or cleaning materials in order to prevent fire hazards. Eating, drinking, and smoking should be prohibited in the area where this material is handled, stored and processed. Worker should follow good personal hygiene practices, such as washing hands before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Keep containers tightly closed when not in use. Prevent product from entering waterways, drains or sewers.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

SAFE STORAGE: Store in a dry, well ventilated area away from direct sunlight, ignition sources, oxidising agents, foodstuffs and clothing. Keep containers closed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers retain residue (liquid and/or vapor) and can be dangerous. **DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.** Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

INCOMPATIBILITIES: Strong oxidizing agents and combustible materials, heat, sparks or flames.

Section 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1 EXPOSURE CONTROL MEASURES:

EXPOSURE LIMIT VALUES: Exposure standards for the product have not been established.

8.2 BIOLOGICAL MONITORING: No data available

8.3 CONTROL BANDING: No data available

8.4 ENGINEERING CONTROLS: Special ventilation is not normally required when using this product in normal use scenarios. However, in the operation of certain equipment, at elevated temperatures, or in confined spaces - mists or vapour may be generated and local exhaust ventilation should be provided to maintain airborne concentration levels below the nominated exposure standard and at an acceptable level that does not cause irritation.

8.5 INDIVIDUAL PROTECTION MEASURES:

EYE & FACE PROTECTION: Wear safety glasses/goggles to avoid eye contact when handling. If there is a risk of splashing during use, a full face shield is recommended. Use eye protection in accordance with AS 1336 and AS 1337.

SKIN (HAND) PROTECTION: If there is the chance of contact with the material wear gloves to provide hand protection. PVC, synthetic or rubber gloves are recommended.

SKIN (CLOTHING) PROTECTION: During normal operating procedures, long sleeved clothing is recommended to avoid skin contact. Soiled clothing should be washed with detergent prior to re-use.

RESPIRATORY PROTECTION: During routine operation a respirator is not required. However, if mists or vapours are generated, an approved half face organic vapour/particulate respirator is required. Use respirators in accordance with AS 1715 and AS 1716.

THERMAL PROTECTION: Greases may be used in elevated temperature applications. In these scenarios, select gloves according to AS 2161.4 for appropriate temperature range.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: Blue, smooth grease

ODOUR: Characteristic odour

ODOUR THRESHOLD: No data available

pH: Not applicable

MELTING/FREEZING POINT: Not applicable

INITIAL BOILING POINT: No data available

BOILING RANGE (°C): >280 °C

FLASH POINT (°C): >200 °C

EVAPORATION RATE: No data available

FLAMMABILITY LIMITS (%): No data available

VAPOUR PRESSURE (mmHg): <0.5 Pa at 20 °C

VAPOUR DENSITY: No data available

DENSITY (g/mL @ 15 °C): <0.915 g/cm³

SOLUBILITY IN WATER (g/L): Insoluble in water

PARTITION COEFFICIENT: >3.5

AUTO-IGNITION TEMP (°C): No data available

DECOMPOSITION TEMP (°C): No data available

VISCOSITY (cSt @ 40 °C): 220 at 40 °C

VISCOSITY (cSt @ 100 °C): No data available

Section 10 - STABILITY AND REACTIVITY

- 10.1 REACTIVITY:** The product does not pose any further reactivity hazards other than those listed in the following sub-sections
- 10.2 CHEMICAL STABILITY:** Stable under recommended storage and handling conditions (see section 7)
- 10.3 POSSIBILITY OF HAZARDOUS REACTION:** Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 CONDITIONS TO AVOID:** Observe the usual pre-cautionary measures for handling chemicals. Do not heat the container or leave the container open when not in use. Avoid strong oxidisers and sources of ignition.
- 10.5 INCOMPATIBLE MATERIALS:** No data available.
- 10.6 HAZARDOUS DECOMPOSITION PRODUCTS:** Hazardous decomposition products are not expected to form during normal storage requirements. See Section 5.2 for Hazardous Combustion products. Hazardous polymerisation does not occur.

Section 11 - TOXICOLOGICAL INFORMATION

- 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:**
- 11.2 IF SWALLOWED:** No data available for this product
- 11.3 SKIN/CORROSION/IRRITATION:** No data available for this product
- 11.4 SERIOUS EYE DAMAGE/IRRITATION:** No data available for this product
- 11.5 RESPIRATORY OR SKIN SENSITISATION:** No data available for this product
- 11.6 GERM CELL MUTAGENICITY:** No data available for this product.
- 11.7 CARCINOGENICITY:** No data available for this product
- 11.8 REPRODUCTIVE TOXICITY:** No data available for this product
- 11.9 SPECIFIC TARGET ORGAN TOXICITY (STOT) SINGLE EXPOSURE** No data available for this product
- 11.10 SPECIFIC TARGET ORGAN TOXICITY (STOT) REPEATED EXPOSURE:** No data available for this product
- 11.11 ASPIRATION HAZARD:** No data available for this product
- 11.12 OTHER INFORMATION:** Used oils may contain harmful impurities that can accumulate during usage. Therefore, all used oils should be handled with caution and skin contact should be avoided by wearing suitable gloves.

Section 12 - ECOLOGICAL INFORMATION

- 12.1 ECOTOXICITY:**
- 12.2 PERSISTENCE & DEGRADABILITY:** No information available however this product is a grease and is not readily biodegradable.
- 12.3 BIOACCUMULATIVE POTENTIAL:** The product does not bioaccumulate.

- 12.4 MOBILITY IN SOIL:** No data available. However, if the product enters soil, based upon similar products it is expected that it will adsorb onto soil particles and will not be mobile.
- 12.5 OTHER ADVERSE EFFECTS:** No information available.

Section 13 - DISPOSAL CONSIDERATION

13.1 DISPOSAL METHODS:

PRODUCT: The product should not be released to the environment, so any unused material should be recycled wherever possible or be disposed of as hazardous waste at an appropriate collection depot. If this is not possible, the product is suitable for burning in an enclosed burner where it can be used as a fuel source. The product is also suitable for incineration at very high temperatures to prevent formation of undesirable combustion products. Spilled product that cannot be recovered should be absorbed and then shovelled into a suitable drum. Follow Government regulations for disposal of such waste. Do not mix new or used lubricating oils taken for recycling or disposal by suitably licensed contractors in accordance with Government regulations.

CONTAINERS: Empty containers may contain residual oil. They should be completely drained and then stored until reconditioned or disposed of. Empty drums should be taken for recycling or disposal through suitably licensed contractors in accordance with Government regulations. Where the containers are of metal construction they should not be pressurised, cut by a grinder, welded, brazed, soldered, drilled or exposed to heat, flames or other sources of ignition. Closed metal containers when exposed to such conditions/treatment may explode causing serious injury or death.

Section 14 - TRANSPORT INFORMATION

This product is not regulated for land, sea or air transportation.

14.1 LAND (ADG Code):	Not applicable
UN NUMBER:	Not applicable
UN PROPER SHIPPING NAME:	Not applicable
TRANSPORT HAZARD CLASS(ES):	Not applicable
PACKAGING GROUP:	Not applicable
ENVIRONMENTAL HAZARDS:	Not applicable
SPECIAL PRECAUTIONS FOR USER:	Not applicable
HAZCHEM CODE:	Not applicable
14.2 SEA (IMDG):	Not applicable
UN NUMBER:	Not applicable
UN PROPER SHIPPING NAME:	Not applicable
TRANSPORT HAZARD CLASS(ES):	Not applicable
PACKAGING GROUP:	Not applicable
ENVIRONMENTAL HAZARDS:	Not applicable
SPECIAL PRECAUTIONS FOR USER:	Not applicable

14.3 AIR (IATA):	Not applicable
UN NUMBER:	Not applicable
UN PROPER SHIPPING NAME:	Not applicable
TRANSPORT HAZARD CLASS(ES):	Not applicable
PACKAGING GROUP:	Not applicable
ENVIRONMENTAL HAZARDS:	Not applicable
SPECIAL PRECAUTIONS FOR USER:	Not applicable

Section 15 - REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS:	
APPLICABLE REGULATIONS:	
SUSMP:	Not Scheduled
AICS:	All ingredients are listed in the AICS list
MONTREAL PROTOCOL:	Not applicable
STOCKHOLM CONVENTION:	Not applicable
ROTTERDAM CONVENTION:	Not applicable
BASEL CONVENTION:	Not applicable
INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM SHIPS (MARPOL):	Not determined
OTHER REGULATORY INFORMATION:	
GHS CLASSIFICATION HAZARD CLASS & CATEGORY AND HAZARD STATEMENT:	
HSNO APPROVAL NUMBER:	Not Applicable
HSNO GROUP TITLE:	Not Applicable

Section 16 - ANY OTHER RELEVANT INFORMATION

16.1 SDS INFORMATION:	
16.2 Date of SDS Preparation:	25 th July 2016
16.3 REVISION CHANGES:	Update Aust/NZ address details (Sect.1), Rev 4.1
16.4 ACRONYMS:	
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
CAS Number	Chemical Abstract Service Registry Number
EINECS	European Inventory of Existing Commercial Chemical Substances
UN Number	United Nations Number
OSHA	Occupational Safety and Health Administration
ACGIH	American Conference of Governmental Industrial Hygienists
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
IUCLID	International Uniform Chemical Information Database
RTECS	Registry of Toxic Effects of Chemical Substances
% W/W	Percent weight for weight
OECD	Organisation for Economic Co-Operation and Development
ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail

HAZCHEM Code	Emergency action code of numbers and letters which gives information to emergency services
NOHSC	National Occupational Health and Safety Commission
AICS	Australian Inventory of Chemical Substances
TWA	Time – Weighted Average
STEL	Short term Exposure Limit
HSNO	Hazardous Substances and New Organisms Act 1996
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
WHS	Work Health and Safety
PPE	Personal Protective Equipment.

All information contained in this 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.