



SAFETY DATA SHEET

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Issue Date: 11 January 2017

Lith EP 1

Version 3

Product name: Lith EP 1 Grease

1. COMPANY DETAILS AND PRODUCT IDENTIFICATION

COMPANY: Hi-Tec Oil Traders Pty Ltd.
ADDRESS: Po Box 322 Castle Hill NSW 1765
5 Tarlington Place, Smithfield NSW 2164
TELEPHONE NUMBER: 1300 796 009
FAX NUMBER: (02) 9604 1611
PRODUCT NAME: Lith EP 1
OTHER NAMES: None
MANUFACTURER'S PRODUCT CODE: HI7-1016
USE: Lithium soap, multipurpose grease

2. STATEMENT OF HAZARDOUS NATURE

HAZARD CLASSIFICATION: NON-HAZARDOUS
NON-DANGEROUS GOODS
Hazard classification according to GHS Classification.
Dangerous goods classification according to Australian Dangerous Goods Code.

SIGNAL WORD (S): None

IRRITANCY OF PRODUCT: Not classified as an irritant.

SENSITISATION OF PRODUCT: Not known to be a sensitiser.

TERATOGENICITY: No teratogenic effects known.

OTHER INFORMATION: Used greases may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and environment on disposal. All used oils should be handled with caution and skin contact avoided as far as possible

3. IDENTIFICATION / COMPOSITION OF INGREDIENTS

INGREDIENTS	CAS Number	%	CLASSIFICATION
Phosphorodithioic acid, O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts - CAS number: 85940-28-9	85940-28-9	1-5	Skin Irritant .2 – H315 Eye Irritant .2 – H319
Other components considered not to be hazardous		To 100	



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4. FIRST AID MEASURES / HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE	SWALLOWED:	This is not expected to be a means of entry during routine operation. Ingestion of small quantities should not cause irritation.
	EYE:	May cause slight irritation to the eyes.
	SKIN:	May be mildly irritating to the skin.
	INHALED:	No data to indicate a toxic inhalation hazard. Inhalation of vapours or mist (generated at elevated temperatures) may cause irritation to the nose and throat.
CHRONIC:		Prolonged or repeated skin contact may lead to drying of the skin.
FIRST AID		
	SWALLOWED:	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 aspiration occurs, urgent medical attention should be sought.
	EYE:	Wash with copious amounts of water for 15 minutes and seek medical advice if irritation develops or persists.
	SKIN:	Remove contaminated clothing and wash skin thoroughly with plenty of soap and water. 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 (Do not remove material).
	INHALED:	Remove person to fresh air and seek medical advice. If not breathing, apply artificial respiration and seek urgent medical aid.
	FIRST AID FACILITIES:	Eye wash fountains and safety showers are recommended.
	ADVICE TO DOCTOR:	Treat symptomatically.

5. FIRE FIGHTING MEASURES

FIRE/EXPLOSION HAZARD

HAZARDS OF USE/STORAGE:	This product is combustible if heated.
HAZARDS FROM COMBUSTION PRODUCTS:	Combustion produces oxides of carbon, nitrogen and sulphur and possibly other harmful gases and vapours.
SPECIFIC HAZARDS:	None Known





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5. FIRE FIGHTING MEASURES (CONT)

FIRE-FIGHTING RECOMMENDATIONS:	Keep storage tanks, pipelines, containers, fire exposed surfaces, etc. cool with water spray.
SUITABLE EXTINGUISHING MEDIA:	Use foam, carbon dioxide or dry chemical.
PRECAUTION:	Water may cause splattering.
PROTECTIVE CLOTHING:	Self-contained breathing apparatus is recommended during a fire.
REACTIVITY:	May react with strong oxidising agents.

6. ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES:	Remove all sources of ignition. Increase ventilation. Evacuate all unnecessary personnel. Wear full protective equipment and clothing to minimize exposure. If possible, contain the spill. Place inert, non-combustible, absorbent material onto the spillage. Use clean, non-sparking tools to collect the material and place into a suitable labelled container. If large quantities of this material enter the waterways, contact the Environmental Protection Authority, or your local Waste Water Authority.
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7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	Repeated or prolonged contact with this material should be avoided in order to lessen the possibility of skin disorders. It is essential that all who come into contact with this material maintain high standards of personal hygiene, i.e. washing hands prior to eating, drinking or going to the toilet. Build-up of mists or vapours in the working environment must be prevented.
STORAGE AND TRANSPORT:	Classified as a combustible solid. Store in a well ventilated area away from ignition sources, oxidising agents, foodstuffs and clothing. Keep containers closed when not in use. Do not store in plastic containers unless approved for this application.
SPILLS AND DISPOSAL:	Spills are easily contained due to the nature of the product. Caution: The product may be slippery. The product should be shovelled into a metal drum and treated as a solid waste. Follow state or local regulations for the disposal of the waste. Clean area with soap and water. Do not allow product to enter drains, sewers or water courses – inform local authorities if this occurs.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE STANDARDS:	If the material is subjected to high temperature operations and mists or vapours are generated the Manufacturer recommends: Time Weighted Average (TWA): 5 mg/m ³ (oil mist). Short Term Exposure Limit (STEL): 10 mg/m ³ (oil mist).
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT)

ENGINEERING CONTROLS: Special ventilation is not normally required. However, in the operation of certain equipment or at elevated temperatures mists or vapour may be generated and localised exhaust ventilation should be provided to maintain airborne concentration levels below the Manufacturer recommended exposure standard.

OCCUPATIONAL EXPOSURE LIMITS - 2-BUTOXYETHANOL

Long-term exposure limit (8-hour TWA): WEL 25 ppm 123 mg/m³

Short-term exposure limit (15-minute): WEL 50 ppm 246 mg/m³

WEL = Workplace Exposure Limit

PERSONAL PROTECTION

RESPIRATOR TYPE (AS1716): During routine operation a respirator is not required. However, if mists or vapours are generated, an approved organic vapour / particulate respirator is required

GLOVE TYPE: PVC, Neoprene or Nitrile gloves are recommended.

EYE PROTECTION: Safety glasses or goggles are recommended to avoid eye contact. If the material is used at elevated temperatures or under pressure a full face shield should be worn.

CLOTHING: During normal operating procedures, long sleeved clothing is recommended to provide skin protection. Soiled clothing should be washed with detergent prior to re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Light amber grease.

VAPOUR PRESSURE (Pa or mmHg at 20°C): Not available.

DENSITY @ 15°C (g/mL): Typically 0.90

MELTING POINT(°C): >185.

FLASHPOINT(°C): >200.

FLAMMABILITY LIMITS (%): Not available.

FLAMMABILITY: Non Flammable, but combustible.

SOLUBILITY IN WATER (g/L): Not miscible with water.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Heat, direct sunlight, open flames or other sources of ignition.





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10. STABILITY AND REACTIVITY (CONT)

INCOMPATIBLE MATERIALS:	Strong oxidising agents.
HAZARDOUS DECOMPOSITION:	Thermal decomposition and combustion produce noxious fumes containing oxides of carbon.
HAZARDOUS REACTIONS:	Hazardous reaction with strong oxidising agents.
HAZARDOUS POLYMERISATION:	Will not occur.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL EFFECTS:	Not regarded as a health hazard under current legislation.
ACUTE TOXICITY - ORAL (LD ₅₀):	Based on available data the classification criteria are not met.
ACUTE TOXICITY - DERMAL (LD ₅₀):	Based on available data the classification criteria are not met.
ACUTE TOXICITY - INHALATION (LC ₅₀):	Based on available data the classification criteria are not met.
SKIN CORROSION/IRRITATION	
ANIMAL DATA:	Based on available data the classification criteria are not met.
SERIOUS EYE DAMAGE/IRRITATION:	Based on available data the classification criteria are not met.
RESPIRATORY SENSITISATION:	Based on available data the classification criteria are not met.
SKIN SENSITISATION:	Based on available data the classification criteria are not met.
GERM CELL MUTAGENICITY	
GENOTOXICITY - IN VITRO	Based on available data the classification criteria are not met.
CARCINOGENICITY	Based on available data the classification criteria are not met.
IARC CARCINOGENICITY	Contains a substance which may be potentially carcinogenic. IARC Group 3 Not classifiable as to its carcinogenicity to humans.
REPRODUCTIVE TOXICITY – FERTILITY:	Based on available data the classification criteria are not met.
REPRODUCTIVE TOXICITY - DEVELOPMENT:	Based on available data the classification criteria are not met.
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE, REPEATED EXPOSURE STOT:	Not classified as a specific target organ toxicant after a single or repeated exposure.



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11. TOXICOLOGICAL INFORMATION

ASPIRATION HAZARD:	Not relevant. Solid.
GENERAL INFORMATION:	No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
INHALATION:	No specific symptoms known.
INGESTION:	No specific symptoms known. May cause discomfort if swallowed.
SKIN CONTACT:	Prolonged contact may cause dryness of the skin.
EYE CONTACT:	No specific symptoms known. May be slightly irritating to eyes.
ROUTE OF ENTRY:	Ingestion Inhalation Skin and/or eye contact.
TARGET ORGANS:	No specific target organs known.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
TOXICITY:	Based on available data the classification criteria are not met.
PERSISTENCE AND DEGRADABILITY:	The degradability of the product is not known.
BIOACCUMULATIVE POTENTIAL:	No data available on bioaccumulation.
MOBILITY IN SOIL:	No data available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS:	Dispose of according to federal, E.P.A. and state regulations.
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14. TRANSPORT INFORMATION

ROAD & RAIL TRANSPORT: ADG REQUIREMENT	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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14. TRANSPORT INFORMATION (CONT)

MARITIME TRANSPORT:
IMO/IMDG REQUIREMENT

Not classified as a Dangerous Good according to the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT:
ICAO/IATA REQUIREMENT

Not classified as a Dangerous Good according to the criteria of the International Maritime Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. CONTACT POINT

CONTACT PERSON/POINT: General Manager 1300 796 009

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.

LITERATURE REFERENCES:

- * NOHSC: 2011 National Code of Practice for the preparation of Material Safety Data Sheets.
- * NOHSC: 1008 Approved Criteria for Classifying Hazardous Substances.
- * NOHSC: 10005 List of Designated Hazardous Substances.
- * NOHSC: 1005 Control of Workplace Hazardous Substances, National Code of Practice.
- * NOHSC: 2007 Control of Workplace Hazardous Substances, National Code of Practice.
- * NOHSC: 1003 Exposure Standards for Atmospheric Contaminants in the Occupational Environment, National Exposure Standards.
- * NOHSC: 3008 Exposure Standards for Atmospheric Contaminants in the Occupational Environment, Guidance Note.
- * NOHSC: 1015 Storage and Handling of Workplace Dangerous Goods, National Standard.
- * NOHSC: 2017 Storage and Handling of Workplace Dangerous Goods, National Code of Practice.
- * SUSDP: Standard for the Uniform Scheduling of Drugs and Poisons
- * ADG: Australian Dangerous Goods Code
- * MSDS of component materials.

LAST CHANGE: Supercedes document issued: 14 September 2015
Reason/s for revision: Minor editorial changes to comply with GHS requirements.

MR711011/1

END OF SDS



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