



# SAFETY DATA SHEET

**Product name:** Moly Lith Grease

## 1. COMPANY DETAILS AND PRODUCT IDENTIFICATION

COMPANY: Hi-Tec Oil Traders Pty Ltd. (ABN 28 053 837 362)

ADDRESS: PO Box 322 Castle Hill NSW 1765  
5 Tarlington Place, Smithfield NSW 2164

TELEPHONE NUMBER: 1300 796 009

FAX NUMBER: (02) 9604 1611

EMERGENCY TELEPHONE NUMBER: 1300 796 009

PRODUCT NAME: Moly Lith Grease

OTHER NAMES: None

MANUFACTURER'S PRODUCT CODE: HI7-1015

USE: Lithium soap, multipurpose grease containing Molybdenum Disulphide.

ADDITIONAL INFORMATION: Refer to Product Information Sheet for additional information.

OTHER INFORMATION: Visit our website: [www.hi-tecoils.com.au](http://www.hi-tecoils.com.au)  
Email: hitecoils@hi-tecoils.com.au

## 2. HAZARDS IDENTIFICATION

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.



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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERISTICS: Grease

INGREDIENTS:-

CHEMICAL ENTITY	CAS NO	PROPORTION
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	70-100%
Phosphorodithioic acid, O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	85940-28-9	1 – 2.5%
Molybdenum Disulphide	1317-33-5	< 1%
Graphite	7782-42-5	< 1%
Calcium Carbonate	1317-65-3	< 1%
Ingredients determined to be non-hazardous	-	To 100%

## 4. FIRST AID MEASURES

**GENERAL INFORMATION:** You should call the Poisons Information Centre on 13 11 26 from anywhere in Australia (0800 764 766 in New Zealand) if you feel that you may have been poisoned, burned or irritated by this product. Have this SDS with you when you call.

**INHALATION:** No specific recommendations. If throat irritation or coughing persists, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues.

**INGESTION:** No specific recommendations. If throat irritation or coughing persists, proceed as follows. Rinse mouth. Get medical attention if any discomfort continues.

**SKIN CONTACT:** No specific recommendations. Rinse with water. Get medical attention if any discomfort continues.

**EYE CONTACT:** Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.

**FIRST AIDERS:** Use protective equipment appropriate for surrounding materials.

### MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

**GENERAL INFORMATION:** 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.





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## 4. FIRST AID MEASURES (CONT)

### INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

NOTES TO PHYSICIAN: Treat symptomatically.

SPECIAL TREATMENTS: No special treatment required.

## 5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

UNSUITABLE EXTINGUISHING MEDIA: Do not use water jet as an extinguisher, as this will spread the fire.

SPECIFIC HAZARDS: None known.

HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition or combustion products may include the following substances:  
Harmful gases or vapours. Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Oxides of sulphur. Oxides of phosphorus. Oxides of nitrogen.

### ADVICE FOR FIREFIGHTERS

PROTECTIVE ACTIONS: Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out.

SPECIAL PROTECTIVE EQUIPMENT: Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

## 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: No specific recommendations. For personal protection, see Section 8.

ENVIRONMENTAL PRECAUTIONS: Avoid discharge into drains or watercourses or onto the ground.

METHODS FOR CONTAINMENT & CLEANING UP: Reuse or recycle products wherever possible. Collect spillage with a shovel and broom or similar and reuse if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

REFERENCE TO OTHER SECTIONS: For personal protection, see Section 8. For waste disposal, see Section 13.



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## 7. HANDLING AND STORAGE

ADVICE ON GENERAL OCCUPATIONAL HYGIENE:

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly closed when not in use.

HYGIENE MEASURES:

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

STORAGE PRECAUTIONS:

Store away from incompatible materials (see Section 10). No specific recommendations.

STORAGE CLASS:

Unspecified storage.

SPECIFIC END USES:

The identified uses for this product are detailed in Section 1.2

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### OCCUPATIONAL EXPOSURE LIMITS

**Distillates (petroleum), hydrotreated heavy naphthenic:**

Short-term exposure limit (15-minute): WEL 10 mg/m<sup>3</sup> mist

**Molybdenum Disulphide**

Long-term exposure limit (8 hour TWA): WEL 10 mg/m<sup>3</sup>

Long-term exposure limit (15-minute): WEL 20 mg/m<sup>3</sup>

**Graphite**

Long-term exposure limit (8 hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust

Long-term exposure limit (8 hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

**Calcium Carbonate**

Long-term exposure limit (8 hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust

Long-term exposure limit (8 hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

WEL = Workplace Exposure Limit

### EXPOSURE CONTROLS

ENGINEERING CONTROLS:

No specific ventilation requirements.

EYE/FACE PROTECTION:

No specific eye protection required during normal use. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

HAND PROTECTION:

No specific hand protection recommended. Large Spillages: Wear protective gloves.

SKIN/BODY PROTECTION:

Wear appropriate clothing to prevent repeated or prolonged skin contact.

HYGIENE MEASURES:

Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.







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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT)

RESPIRATORY PROTECTION: No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.

ENVIRONMENTAL EXPOSURE CONTROLS: Not regarded as dangerous for the environment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Grease

COLOUR: Grey to black

ODOUR: Almost odourless

ODOUR THRESHOLD: No information available

pH: Not applicable

MELTING POINT: >180°C

INITIAL BOILING POINT AND RANGE: No information available

FLASH POINT: >200°C Pensky-Martens closed cup. Information given is applicable to the major ingredient

EVAPORATION RATE: No information available

EVAPORATION FACTOR: No information available

FLAMMABILITY (SOLID, GAS): No information available

UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: No information available

OTHER FLAMMABILITY: No information available

VAPOUR PRESSURE: No information available

VAPOUR DENSITY: No information available

RELATIVE DENSITY: Approximately 0.89 @ 25°C

BULK DENSITY: No information available

SOLUBILITY(IES): Insoluble in water.

PARTITION COEFFICIENT: No information available

AUTO-IGNITION TEMPERATURE: No information available



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## 9. PHYSICAL AND CHEMICAL PROPERTIES (CONT)

DECOMPOSITION TEMPERATURE:	No information available
VISCOSITY:	150 cSt @ 40°C. Information given is applicable to the major ingredient
EXPLOSIVE PROPERTIES:	Not considered to be explosive
EXPLOSIVE UNDER THE INFLUENCE OF A FLAME:	Not considered to be explosive
OXIDISING PROPERTIES:	Not applicable

## 10. STABILITY AND REACTIVITY

REACTIVITY:	No test data specifically related to reactivity available for this product or its ingredients.
CHEMICAL STABILITY:	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
HAZARDOUS REACTIONS:	No potentially hazardous reactions known.
CONDITIONS TO AVOID:	Avoid excessive heat for prolonged periods of time.
INCOMPATIBLE MATERIALS:	Avoid contact with the following materials: Strong oxidising agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO).

## 11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL EFFECTS:	Not regarded as a health hazard under current legislation.
<u>ACUTE TOXICITY - ORAL</u> Notes (oral LD <sub>50</sub> ):	Based on available data the classification criteria are not met.
<u>ACUTE TOXICITY - DERMAL</u> Notes (dermal LD <sub>50</sub> ):	Based on available data the classification criteria are not met.
<u>ACUTE TOXICITY - INHALATION</u> Notes (inhalation LC <sub>50</sub> ):	Based on available data the classification criteria are not met.
<u>SKIN CORROSION/IRRITATION</u> Animal data:	Based on available data the classification criteria are not met.



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## 11. TOXICOLOGICAL INFORMATION (CONT)

### SERIOUS EYE DAMAGE/IRRITATION

Serious eye damage/irritation:

Based on available data the classification criteria are not met.

### RESPIRATORY SENSITISATION

Respiratory sensitisation:

Based on available data the classification criteria are not met.

### SKIN SENSITISATION

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

Carcinogenicity:

Based on available data the classification criteria are not met.

IARC carcinogenicity:

None of the ingredients are listed or exempted.

### REPRODUCTIVE TOXICITY

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

STOT - single exposure

Not classified as a specific target organ toxicant after a single exposure.

### SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE

STOT - repeated exposure

Not classified as a specific target organ toxicant after repeated exposure.

### ASPIRATION HAZARD

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.



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## 11. TOXICOLOGICAL INFORMATION (CONT)

### TOXICOLOGICAL INFORMATION ON INGREDIENTS

#### Distillates (petroleum), hydrotreated heavy naphthenic

##### ACUTE TOXICITY - ORAL

Notes (oral LD<sub>50</sub>): OECD 401 > 5000 mg/kg, Oral, Rat.

##### ACUTE TOXICITY - DERMAL

Notes (dermal LD<sub>50</sub>): OECD 402 > 5000 mg/kg, Dermal, Rabbit.

##### ACUTE TOXICITY - INHALATION

Notes (dermal LC<sub>50</sub>): OECD 403 > 5.53 mg/l, 4 hours, Dust/Mist, Rat.

##### SKIN CORROSION/IRRITATION

Skin corrosion/irritation: Not irritating.

##### SERIOUS EYE DAMAGE/IRRITATION

Serious eye damage/irritation: Not irritating.

##### SKIN SENSITISATION

Skin sensitisation: Not sensitising.

##### CARCINOGENICITY

Carcinogenicity: Based on available data the classification criteria are not met.

#### Molybdenum Disulphide

##### ACUTE TOXICITY - INHALATION

Notes (dermal LC<sub>50</sub>): > 2,820 mg/m<sup>3</sup>, 4 hours, Dust/Mist, Inhalation, Rat.

#### Graphite

##### ACUTE TOXICITY - ORAL

Notes (oral LD<sub>50</sub>): LD<sub>50</sub> 2,000 mg/kg, Oral, Rat.

##### ACUTE TOXICITY - INHALATION

Notes (inhalation LC<sub>50</sub>): LC<sub>50</sub> >2,000 mg/m<sup>3</sup>, Inhalation, Rat.

#### Calcium Carbonate

##### ACUTE TOXICITY - ORAL

Notes (oral LD<sub>50</sub>): LD<sub>50</sub> >5000 mg/kg, Oral, Rat.

ATE oral (mg/kg):

5000.0

##### ACUTE TOXICITY - DERMAL

Notes (dermal LD<sub>50</sub>): LD<sub>50</sub> >5000 mg/kg, Dermal, Rat.





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## 11. TOXICOLOGICAL INFORMATION (CONT)

### SKIN CORROSION/IRRITATION

Animal data: Not irritating.

### SERIOUS EYE DAMAGE/IRRITATION

Serious eye damage/irritation: Not irritating.

### RESPIRATORY SENSITISATION

Respiratory sensitisation: No data available.

## 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.

### ECOLOGICAL INFORMATION ON INGREDIENTS:

#### Distillates (petroleum), hydrotreated heavy naphthenic

#### ACUTE AQUATIC TOXICITY:

Acute Toxicity – Fish	LC <sub>50</sub> , 96 hours: >100 mg/l
Acute Toxicity – Aquatic Invertebrates	EC <sub>50</sub> , 96 hours: >10,000 mg/l
Acute Toxicity – Aquatic Plants	EC <sub>50</sub> , 72 hours: >100 mg/l

#### CHRONIC AQUATIC TOXICITY:

Chronic Toxicity – Aquatic Invertebrates NOEC, 21 days: 10 mg/l

#### Phosphorodithioic acid, O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts

#### ACUTE AQUATIC TOXICITY:

Acute Toxicity – Fish	LC <sub>50</sub> , 96 hours: 4.5 mg/l, Oncorhynchus mykiss (Rainbow trout)
	NOEC, 96 hours: 1.8 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute Toxicity – Aquatic Invertebrates	EC <sub>50</sub> , 48 hours: 5.4 mg/l, Daphnia magna
	NOEC, 48 hours: <1 mg/l, Daphnia magna
Acute Toxicity – Aquatic Plants	LC <sub>50</sub> , 96 hours: 2.1 mg/l, Scenedesmus subspicatus

#### Calcium Carbonate

#### ACUTE AQUATIC TOXICITY:

Acute Toxicity – Fish	LC <sub>50</sub> , 96 hours: >10,000 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute Toxicity – Aquatic Invertebrates	EC <sub>50</sub> , 48 hours: >1,000 mg/l, Daphnia magna
Acute Toxicity – Aquatic Plants	EC <sub>50</sub> , 72 hours: >200 mg/l, Scenedesmus subspicatus

### PERSISTENCE AND DEGRADABILITY:

Persistence and degradability The degradability of the product is not known.



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## 12. ECOLOGICAL INFORMATION (CONT)

### Distillates (petroleum), hydrotreated heavy naphthenic

Biodegradation Inherently biodegradable.

### Phosphorodithioic acid, O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts

Persistence and degradability Not readily biodegradable.

### Calcium Carbonate

Persistence and degradability The product contains only inorganic substances which are not biodegradable.

BIOACCUMULATIVE POTENTIAL: No data available on bioaccumulation.

PARTITION COEFFICIENT: No information available

### ECOLOGICAL INFORMATION ON INGREDIENTS:

### Distillates (petroleum), hydrotreated heavy naphthenic

Bioaccumulative potential Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

Partition coefficient log Pow: 2 to 6

### Calcium Carbonate

Partition coefficient: Not applicable

MOBILITY IN SOIL: No data available.

### ECOLOGICAL INFORMATION ON INGREDIENTS:

### Distillates (petroleum), hydrotreated heavy naphthenic

Mobility: Mobile

### RESULTS OF PBT & vPvB ASSESSMENT

### ECOLOGICAL INFORMATION ON INGREDIENTS:

### Calcium Carbonate

Results of PBT and vPvB assessment: This product does not contain any substances that are classified as PBT or vPvB.



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## 12. ECOLOGICAL INFORMATION (CONT)

OTHER ADVERSE EFFECTS: None known.

## 13. DISPOSAL CONSIDERATIONS

GENERAL INFORMATION: The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way.

DISPOSAL METHODS: Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

## 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.

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. REGULATORY INFORMATION

POISON SCHEDULE: Not scheduled.

PACKING & LABELLING: No special packaging or labelling requirements.

AUSTRALIAN INVENTORY STATUS: All components are listed or exempted.



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## 16. OTHER INFORMATION

### 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.
- \* Safework Australia: 2016 Code of Practice for the Preparation of Safety Data Sheets for Hazardous Substances.
- \* 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:

Supersedes document issued: 11 January 2018

Reason/s for revision: Minor editorial adjustments to comply with GHS requirements.

MR223003/1

END OF SDS



AUSTRALIAN FAMILY OWNED SINCE 1989

