

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING**Product Identifier:** EP LITHIUM GREASE #2**Relevant identified uses of the substance or mixture and uses advised against:**

Intended use: Refer to Technical Data Sheet

Details of the supplier of the safety data sheet:

MOREY OIL SOUTH PACIFIC (AUST) PTY LTD
 2/50 SUCCESS STREET, ACACIA RIDGE
 QLD 4110, AUSTRALIA

Phone number: 7 321 66000
 Website: www.moreyoil.com.au
 Email: info@moreyoil.com.au

Emergency telephone number: 1 800 637173**SECTION 2 HAZARDS IDENTIFICATION****Classification of the substance or mixture:**

Not Classified

Label Elements:

Using the Toxicity Data listed in section 11 & 12 the product is labelled as follows.

Not Classified

HMIS	Health:	0	NFPA	Health:	0
	Fire:	1		Fire:	1
	Physical:	0		Reactivity:	0
	Hazards:			Special Hazards:--	
	PPE:	C			

Other Hazards:

This product contains no PBT/vPvB chemicals.

Not classified as hazardous according to the criteria of NOHSC Australia.**Not defined as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by road or rail.****SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

CAS Number	%	Name	EC No. 1272/2008 GHS Classification
0064742-52-5	<90	Distillate (petroleum) hydrotreated heavy naphthenic	Not Classified
0064742-57-0	<20	Residual oils (petroleum), hydrotreated	Not Classified
0000106-14-9	<10	Octadecanoic acid, 12-hydroxy-	Not Classified
0010254-57-6	<5	Carbamodithioic acid, dibutyl-, methylene ester	Not Classified

* The full texts of the phrases are shown in Section 16.

SECTION 4 FIRST AID MEASURES

General:	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation:	If inhaled, remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. If unconscious, place in the recovery position and seek medical attention immediately.
Skin:	In case of contact, immediately rinse skin with plenty of water. Remove contaminated clothing and shoes. If skin irritation occurs, seek medical attention. Launder contaminated clothing before reuse.
Eye:	In case of contact, immediately rinse eyes with plenty of fresh, clean water for at least 15 minutes. Remove contact lenses if present and continue rinsing. Seek medical attention immediately.
Ingestion:	Do not induce vomiting. Call a doctor or emergency medical facility immediately.

Most important symptoms and effects, both acute and delayed.

No data available

Indication of any immediate medical attention and special treatment needed:

No data available

SECTION 5 FIRE FIGHTING MEASURES

- Extinguishing media:** Use carbon dioxide (CO₂), dry chemical, or foam to extinguish flames.
- Special hazards arising from the substance or mixture:** Hazardous decomposition products. May form CO and CO₂.
- Advice for fire-fighters:** Self-contained full-face positive pressure breathing apparatus (SCBA) should be used. Water can be used to cool and protect exposed material. Do not allow runoff water and contaminants from firefighting to enter drains or water courses.

SECTION 6 ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures:**
Avoid contact with spilled material. Use suitable personal protective equipment. Ventilate area if spilled in confined space or other poorly ventilated areas. Evacuate personnel to safe areas. Keep unnecessary personnel away.
- Environmental precautions:** Prevent entry into sewers and waterways. Report spills as required to appropriate authorities in accordance with all applicable regulations.
- Methods and material for containment and cleaning up:**
Ventilate the area and avoid breathing vapours. Take the personal protective measures listed in section 8.
Contain and absorb spillage with non-combustible materials. Place in closed containers outside buildings and dispose of according to the Waste Regulations. See section 13.
Clean preferably with a detergent. Do not use solvents.
Do not allow spills to enter drains or water courses.
If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes, the Environmental Protection Authority should also be informed.
Dispose of in accordance with local environmental regulations.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling:

- Handling:** Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing vapour. Use with adequate ventilation.
- In storage:** Store in a dry location at room temperature. Keep this container and vapours from the container away from heat and flame. Keep container closed and maintain all original markings and labels.
- Conditions for safe storage including any incompatibilities:** Keep away from strong oxidizing and reducing agents. CAUTION: Do not use cutting or welding torches on drums, even when empty. Do not reuse container. Containers, even those that have been emptied will retain product residue and vapours. Always obey hazard warnings and handle empty containers as if they were full.
- Specific end use(s):** There are no exposure scenarios, see details in section 1.

SECTION 8 EXPOSURE CONTROLS - PERSONAL PROTECTION

Control parameters:
The following occupational exposure limits have been established.

CAS NUMBER	INGREDIENT	SOURCE	VALUE
0000106-14-9	Octadecanoic acid, 12-hydroxy-	OSHA	No established limit
		ACGIH	No established limit
		NIOSH	No established limit
0010254-57-6	Carbamodithioic acid, dibutyl-, methylene ester	OSHA	No established limit
		ACGIH	No established limit
		NIOSH	No established limit

0064742-52-5	Distillate (petroleum) hydrotreated heavy naphthenic	OSHA ACGIH NIOSH	No established limit No established limit No established limit
0064742-57-0	Residual oils (petroleum), hydrotreated	OSHA ACGIH NIOSH	No established limit No established limit No established limit

Contains mineral oil. The exposure limits for oil mist are 5 mg/m³ OSHA PEL and 10mg/m³ ACGIH.

Carcinogen data:

CAS NUMBER	INGREDIENT	SOURCE	VALUE
0000106-14-9	Octadecanoic acid, 12-hydroxy-	OSHA IARC	Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
0010254-57-6	Carbamodithioic acid, methylene ester	OSHA IARC	Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
0064742-52-5	Distillate (petroleum) hydrotreated heavy naphthenic	OSHA IARC	Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
0064742-57-0	Residual oils (petroleum), hydrotreated	OSHA IARC	Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;

DNEL/PNEC values: No data available

Exposure controls: No special requirements under ordinary conditions of use and with adequate ventilation.

Eye/face protection: Wear safety glasses. If potential for splash or mist exists, wear chemical goggles or face shield.

Skin protection: Wear chemical resistant gloves. Gloves should be inspected before each use and discarded if they show tears, pinholes or signs of wear.

Other: Gloves, overalls, apron, boots, or other suitable protective garments should be worn to minimize contact based on the task being performed.

Respiratory protection: Use NIOSH/OSHA approved respirator where high vapour concentrations are present.

Thermal hazards: No data available.

SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES
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Appearance:	BLUE GREASE		
Odour:	Petroleum Odour		
Odour threshold:	Not determined	pH:	Not measured
Melting point/freezing point (C):	Not determined	Initial boiling point and boiling range (C):	> 300
Flash point (C):	> 200	Evaporation rate (H₂O = 1):	Not determined
Flammability (solid, gas):	Not applicable	Relative density:	0.9256
Vapour pressure (Pa):	Not determined	Vapour density:	Heavier than air
Solubility(ies):	negligible	Auto-ignition temperature (C):	Not determined
Decomposition temperature:	Not determined	Pour point temperature (C):	Not determined
Volatile Organic Compounds:	nil	SADT:	Not determined
Viscosity (cSt) @ 100 C:	Not measured	Viscosity (cSt) @ 40 C:	Not measured

Upper/lower flammability or explosive limits

Lower Explosive Limit:	Not determined	Upper Explosive Limit:	Not determined
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Partition coefficient n-octanol/water (Log Kow):	Not determined
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The data listed above are typical physical and chemical properties that do not constitute product specification.

Other information:

DMSO extract by IP346: Less than 3.0 wt% (mineral oil component only)

SECTION 10	STABILITY AND REACTIVITY
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Reactivity:	No data available
Chemical Stability:	Material is normally stable at ambient temperature and pressure.
Possibility of hazardous reactions:	May react with oxidising agents
Conditions to avoid:	High temperature, sparks and open flames.
Incompatible materials:	Keep away from strong oxidising and reducing agents.
Hazardous decomposition products:	May form CO and CO ₂ .

SECTION 11	TOXICOLOGICAL INFORMATION
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Acute toxicity

The preparation has been assessed using the Acute Toxicity Data listed below, and classified for toxicological hazards accordingly. See section 2 for details.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation vapour LD50, mg/L/4hr
Carbamodithioic acid, dibutyl-, mtethylene ester – (0010254-57-6)	16,000.00, Rat	>2,000, Rabbit	Not Available
Distillate (petroleum) hydrotreated heavy naphthenic – (0064742-52-5)	>5,000, Rat	5,000.00, Rabbit	Not Available
Octadecanoic acid, 12-hydroxy- (0000106-14-9)	Not Available	Not Available	Not Available
Residual oils (petroleum), hydrotreated – (0064742-57-0)	Not Available	Not Available	Not Available

Classification	Category	Hazard Description
Acute toxicity (oral)	Not classified	Not applicable
Acute toxicity (dermal)	Not classified	Not applicable
Acute toxicity (inhalation)	Not classified	Not applicable
Skin corrosion/irritation	Not classified	Not applicable
Serious eye damage/irritation	Not classified	Not applicable
Respiratory sensitisation	Not classified	Not applicable
Skin sensitisation	Not classified	Not applicable
Germ cell mutagenicity	Not classified	Not applicable
Carcinogenicity	Not classified	Not applicable
Reproductive toxicity	Not classified	Not applicable
STOT – single exposure	Not classified	Not applicable
STOT – repeated exposure	Not classified	Not applicable
Aspiration hazard	Not classified	Not applicable

SECTION 12	ECOLOGICAL INFORMATION
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Toxicity:

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

Aquatic Ecotoxicity:

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Distillate (petroleum) hydrotreated heavy naphthenic – (0064742-52-5)	5,000.00, Oncorhynchus mykiss	1,000.00, Daphnia magna	1,000.00 (96 hr), Scenedesmus subspicatus
Residual oils (petroleum) hydrotreated – (0064742-57-0)	Not Available	Not Available	Not Available
Octadecanoic acid, 12-hydroxy- (0000106-14-9)	Not Available	Not Available	Not Available
Carbamodithioic acid, dibutyl-, methylene ester – (0010254-57-6)	Not Available	Not Available	Not Available

Persistence and degradability:	There is no data available on the preparation itself.
Bioaccumulative potential:	Not measured
Mobility in soil:	No data available
Results of PBT and vPvB assessment:	This product contains no PBT/vPvB chemicals
Other adverse effects:	No data available

SECTION 13	DISPOSAL CONSIDERATIONS
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Waste treatment methods: Consult federal, state and local regulations regarding disposal methods. Recycle used oil. Do not contaminate used oil with solvents or other chemicals.

SECTION 14	TRANSPORTATION INFORMATION
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UN Number: Not applicable
UN proper shipping name: Not regulated

Transport hazard class(es):
US DOT Label Not regulated
ADR/RID Not regulated
IMDG Not regulated
Sub class Not applicable

Packing group: Not applicable

Environmental hazards:
ADR/RID Environmentally Hazardous: No – Not regulated
IMDG Marine Pollutant: No – Not regulated

Special precautions for user: No further information

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15	REGULATORY INFORMATION
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National Legislation:

United States:

The regulatory data in Section 15 is not intended to be all inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.

SARA 311/312 (>0.1%): Not applicable
SARA 313 (>0.1%): Not applicable
CERCLA (>0.1%): Not applicable

Inventory – Canada – Non – Domestic Substances List (NDSL):

9-Octadecanoic acid (Z)-, reaction products with diethylenetriamine, oleates

California Proposition 65 Cancer:

Not applicable

California Proposition 65 Developmental:

Not applicable

California Proposition 65 Female Reproductive:

Not applicable

California Proposition 65 Male Reproductive:

Not applicable

Inventory – Australia - Inventory of Chemical Substances (AICS):

Carbamodithioic acid, dibutyl-, methylene ester
 Distillate (petroleum) hydrotreated heavy naphthenic
 Lithium hydroxide monohydrate
 Octadecanoic acid, 12-hydroxy-
 Residual oils (petroleum), hydrotreated
 Tall oil

Inventory – Japan Existing and New Chemical Substances (ENCS):

Carbamodithioic acid, dibutyl-, methylene ester (2-3522)
Distillate (petroleum) hydrotreated heavy naphthenic ()
Octadecanoic acid, 12-hydroxy- (2-1340; 9-1676)
Residual oils (petroleum), hydrotreated (9-1689)
Tall oil (7-977; 8-338)

Korean Existing Chemicals Inventory:

Carbamodithioic acid, dibutyl-, methylene ester
Distillate (petroleum) hydrotreated heavy naphthenic
Octadecanoic acid, 12-hydroxy-
Residual oils (petroleum), hydrotreated
Tall oil

Inventory of Existing Chemical Substances in China:

Not applicable

Philippines Inventory of Chemicals and Chemical Substances (PICCS):

Carbamodithioic acid, dibutyl-, methylene ester
Distillate (petroleum) hydrotreated heavy naphthenic
Lithium hydroxide monohydrate
Octadecanoic acid, 12-hydroxy-
Residual oils (petroleum), hydrotreated
Tall oil

Taiwan List of Toxic Chemical Substances regulated under Toxic Chemical Substances Control Act:

Not applicable

EU REACH: Annex XVII, Dangerous Substances and Preparations:

Distillate (petroleum) hydrotreated heavy naphthenic
Residual oils (petroleum), hydrotreated

Inventory - European Union – European Inventory of Existing Commercial Chemical Substances (EINECS):

9-Octadecenoic acid (Z)-, reaction products with diethylenetriamine, oleates (271-549-3)
Carbamodithioic acid, dibutyl-, methylene ester (233-591-1)
Distillate (petroleum) hydrotreated heavy naphthenic (265-155-0)
Octadecanoic acid, 12-hydroxy- (203-366-1)
Residual oils (petroleum), hydrotreated (265-160-8)
Tall oil (232-304-6)

EU List of Notified Chemical Substances (ELINCS): Not applicable**Risk Phrases:**

Not Classified

SECTION 16 OTHER INFORMATION

This information has been compiled from sources considered to be dependable and is accurate to the best of Morey Oil South Pacific Ltd knowledge. Morey Oil South Pacific Ltd makes no warranty whatsoever, expressed or implied, of MERCHANTABILITY OR FITNESS FOR THE PARTICULAR PURPOSE, regarding the accuracy of such data or the results to be obtained from the use thereof. Morey Oil South Pacific Ltd assumes no responsibility for injury to recipient or third persons, or for any damage to any property and recipient assumes all such risks.

The full text of the phrases appearing in section 3 is:

This is the first revision of this SDS Format, changes from previous revision not applicable.

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