

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING****Product Identifier: MOREY'S BIGFOOT EP2 GREASE****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 LTD  
135 HEPBURN ROAD, GLENDENE  
AUCKLAND 0602, NEW ZEALAND

Phone number: +649 8139200  
Website: www.moreyoil.co.nz  
Email: info@moreyoil.co.nz

**SECTION 2 HAZARDS IDENTIFICATION****Classification of the substance or mixture:**

Skin Irrit. 2;H315 Causes skin irritation

**Label Elements:**

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

GHS Label element:

Signal Word: **WARNING****Hazard Statement:**

H315 Causes skin irritation

**Precautionary Statements:**

Prevention:	P260 P262 P280	Do not breathe mist/vapours/spray Do not get in eyes, on skin, or on clothing Wear protective gloves/eye protection/face protection
Response:	P301+310  P302+352 P331 P362	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician IF ON SKIN: Wash with soap and water Do NOT induce vomiting Take off contaminated clothing and wash before reuse.

<b>HMIS</b>	<b>Health:</b> 2	<b>NFPA</b>	<b>Health:</b> 2
	<b>Fire:</b> 1		<b>Fire:</b> 1
	<b>Physical:</b> 0		<b>Reactivity:</b> 0
	<b>Hazards:</b>		
	<b>PPE:</b> C		<b>Special Hazards:--</b>

**Other Hazards:**

This product contains no PBT/vPvB chemicals.

**Not classified as hazardous according to the criteria of HSNO New Zealand.****SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

CAS Number	%	Name	EC No. 1272/2008 GHS Classification
0064742-52-5	<80	Distillate (petroleum) hydrotreated heavy naphthenic	Not Classified
Proprietary or N/A	<10	Hydroxyl Containing Saturated Fatty Acids	Not Classified
0009003-29-6	<5	Polybutene	Not Classified
0064742-46-7	<5	Distillates (petroleum), hydrotreated middle	Not Classified
0000111-20-6	<3	Decanedioic Acid	Not Classified

**SAFETY DATA SHEET**

0001310-66-3 &lt;3

**CODE: 43000-BF**

Lithium hydroxide monohydrate

**REVISION: 06/05/2022**

Skin Corr. 1;H314

STOT SE 3;H335

Not Classified

Not Classified

Proprietary or N/A &lt;3

Olefin Sulfide

Proprietary or N/A &lt;3

Proprietary additive

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

**SECTION 4 FIRST AID MEASURES**

<b>General:</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation:</b>	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.
<b>Skin:</b>	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.
<b>Eye:</b>	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.
<b>Ingestion:</b>	Do not induce vomiting. Call a doctor or emergency medical facility immediately.
<b>Most important symptoms and effects, both acute and delayed.</b>	No data available
<b>Indication of any immediate medical attention and special treatment needed:</b>	No data available

**SECTION 5 FIRE FIGHTING MEASURES**

<b>Extinguishing media:</b>	Use carbon dioxide (CO <sub>2</sub> ), dry chemical, or foam to extinguish flames.
<b>Special hazards arising from the substance or mixture:</b>	Hazardous decomposition products. May form CO and CO <sub>2</sub> .
<b>Advice for fire-fighters:</b>	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**

<b>Personal precautions, protective equipment and emergency procedures:</b>	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.
<b>Environmental precautions:</b>	Prevent entry into sewers and waterways. Report spills as required to appropriate authorities in accordance with all applicable regulations.
<b>Methods and material for containment and cleaning up:</b>	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.

<b>SECTION 7</b>	<b>HANDLING AND STORAGE</b>
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**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.

<b>SECTION 8</b>	<b>EXPOSURE CONTROLS - PERSONAL PROTECTION</b>
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**Control parameters:**

The following occupational exposure limits have been established.

CAS NUMBER	INGREDIENT	SOURCE	VALUE
0000111-20-6	Decanedioic Acid	OSHA ACGIH NIOSH	No established limit No established limit No established limit
0001310-66-3	Lithium hydroxide monohydrate	OSHA ACGIH NIOSH	No established limit No established limit No established limit
0009003-29-6	Polybutene	OSHA ACGIH NIOSH	No established limit No established limit No established limit
0064742-46-7	Distillates (petroleum), hydrotreated middle	OSHA ACGIH NIOSH	No established limit No established limit No established limit
0064742-52-5	Distillate (petroleum) hydrotreated heavy naphthenic	OSHA ACGIH NIOSH	No established limit No established limit No established limit
Proprietary or N/A	Hydroxyl Containing Saturated Fatty Acids	OSHA ACGIH NIOSH	No established limit No established limit No established limit
Proprietary or N/A	Olefin Sulfide	OSHA ACGIH NIOSH	No established limit No established limit No established limit
Proprietary or N/A	Proprietary additive	OSHA ACGIH NIOSH	No established limit No established limit No established limit

Contains mineral oil. The exposure limits for oil mist are 5mg/m<sup>3</sup> OSHA PEL and 10mg/m<sup>3</sup> ACGIH.

**Carcinogen data:**

CAS NUMBER	INGREDIENT	SOURCE	VALUE
0000111-20-6	Decanedioic Acid	OSHA IARC	Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
0001310-66-3	Lithium hydroxide monohydrate	OSHA IARC	Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
0009003-29-6	Polybutene	OSHA IARC	Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;

**SAFETY DATA SHEET**

CODE: 43000-BF

REVISION: 06/05/2022

064742-46-7	Distillates (petroleum), hydrotreated middle	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;
Proprietary or N/A	Hydroxyl Containing Saturated Fatty Acids	OSHA IARC	Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
Proprietary or N/A	Olefin Sulfide	OSHA IARC	Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
Proprietary or N/A	Proprietary additive	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**

<b>Appearance:</b>	<b>ORANGE GREASE</b>	<b>Odour:</b>	Petroleum odour
<b>Odour threshold:</b>	Not determined	<b>pH:</b>	Not measured
<b>Melting point/freezing point (C):</b>	Not determined	<b>Initial boiling point and boiling range (C):</b>	> 300
<b>Flash point (C):</b>	> 200	<b>Evaporation rate (H20 = 1):</b>	Not determined
<b>Flammability (solid, gas):</b>	Not applicable	<b>Relative density:</b>	0.9443
<b>Vapour pressure (Pa):</b>	Not determined	<b>Vapour density:</b>	Heavier than air
<b>Solubility(ies):</b>	negligible	<b>Auto-ignition temperature (C):</b>	Not determined
<b>Decomposition temperature:</b>	Not determined	<b>Pour point temperature (C):</b>	Not determined
<b>Volatile Organic Compounds:</b>	nil	<b>SADT:</b>	Not determined
<b>Viscosity (cSt) @ 100 C:</b>	Not measured	<b>Viscosity (cSt) @ 40 C:</b>	Not measured
<b>Upper/lower flammability or explosive limits</b>		<b>Upper Explosive Limit:</b>	Not determined
<b>Lower Explosive Limit:</b>	Not determined		
<b>Partition coefficient n-octanol/water (Log Kow):</b>			Not determined

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**

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Material is normally stable at ambient temperature and pressure.
<b>Possibility of hazardous reactions:</b>	May react with oxidising agents
<b>Conditions to avoid:</b>	High temperature, sparks and open flames.

Incompatible materials:

Keep away from strong oxidising and reducing agents.

Hazardous decomposition products:

May form CO and CO<sub>2</sub>.

<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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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
Decanedioic Acid – (0000111-20-6)	>5,000, Rat	6,000.00, Rabbit	Not Available
Distillate (petroleum) hydrotreated heavy naphthenic – (0064742-52-5)	>5,000, Rat	5,000.00, Rabbit	Not Available
Distillates (petroleum), hydrotreated middle – (0064742-46-7)	>5,000, Rat	3,000.00, Rabbit	Not Available
Hydroxyl Containing Saturated Fatty Acids (Proprietary or N/A)	Not Available	Not Available	Not Available
Lithium hydroxide monohydrate- (0001310-66-3)	Not Available	Not Available	Not Available
Olefin Sulfide – (Proprietary or N/A)	2,000.00, Rat	>2,000, Rabbit	Not Available
Polybutene – (0009003-29-6)	34,600.00, Rat	10,250.00 Rabbit	Not Available
Proprietary additive – (Proprietary of N/A)	Not Available	Not Available	Not Available

**Classification**

Acute toxicity (oral)

**Category**

Not classified

Acute toxicity (dermal)

Not classified

Acute toxicity (inhalation)

Not classified

Skin corrosion/irritation

2

**Hazard Description**

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

<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
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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
Hydroxyl Containing Saturated Fatty Acids – (Proprietary or N/A)	Not Available	Not Available	Not Available
Polybutene – (0009003-29-6)	Not Available	Not Available	Not Available
Distillates (petroleum) hydrotreated middle – (0064742-46-7)	54.00, Jordanella floridae	68.00, Daphnia magna	Not Available
Decanedioic Acid – (0000111-20-6)	Not Available	Not Available	Not Available

Lithium hydroxide monohydrate – (0001310-66-3)	Not Available	Not Available	Not Available
Olefin Sulfide – (Proprietary or N/A)	Not Available	Not Available	Not Available
Proprietary additive – (Proprietary or N/A)	Not Available	Not Available	Not Available

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

<b>SECTION 13</b>	<b>DISPOSAL CONSIDERATIONS</b>
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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.

<b>SECTION 14</b>	<b>TRANSPORTATION INFORMATION</b>
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<b>UN Number:</b>	Not applicable
<b>UN proper shipping name:</b>	Not regulated
<b>Transport hazard class(es):</b>	
<b>US DOT Label</b>	Not regulated
<b>ADR/RID</b>	Not regulated
<b>IMDG</b>	Not regulated
<b>Sub class</b>	Not applicable
<b>Packing group:</b>	Not applicable
<b>Environmental hazards:</b>	
<b>ADR/RID</b>	Environmentally Hazardous: No – Not regulated
<b>IMDG</b>	Marine Pollutant: No – Not regulated
<b>Special precautions for user:</b>	No further information
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>	Not applicable

<b>SECTION 15</b>	<b>REGULATORY INFORMATION</b>
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<b>New Zealand:</b>	
<b>HSNO Approval Number</b>	HSR002605
<b>HSNO Group Standard</b>	Lubricants (Low Hazard) Group Standard 2017
<b>HSNO Classification</b>	6.3 Skin Irritation – Category A

**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.

<b>SARA 311/312 (&gt;0.1%):</b>	Not applicable
<b>SARA 313 (&gt;0.1%):</b>	Zinc Alkyldithiophosphate
<b>CERCLA (&gt;0.1%):</b>	Not applicable

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

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

**California Proposition 65 Cancer:**

Arsenic  
Benzene  
Ethyl benzene  
Cadmium  
Ethyl acrylate  
Lead  
Naphthalene

**California Proposition 65 Developmental:**

Benzene  
Toluene

**California Proposition 65 Female Reproductive:****California Proposition 65 Male Reproductive:**

Benzene

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

1,3-Butadiene, 2-methyl-, homopolymer  
Decanedioic Acid  
Distillate (petroleum) hydrotreated heavy naphthenic  
Distillates (petroleum), hydrotreated middle  
Lithium hydroxide monohydrate  
Naphtha (petroleum), hydrodesulfurized heavy  
Olefin Sulfide  
Phosphoric acid/Alkyl esters  
Polybutene  
Stoddard solvent  
Tall oil  
Zinc Alkyldithiophosphate

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

1,3-Butadiene, 2-methyl-, homopolymer (6-748)  
Decanedioic Acid (2-878)  
Distillate (petroleum) hydrotreated heavy naphthenic ()  
Distillates (petroleum), hydrotreated middle ()  
Polybutene (6-774)  
Tall oil (7-977; 8-338)

**Korean Existing Chemicals Inventory:**

1,3-Butadiene, 2-methyl-, homopolymer  
Decanedioic Acid  
Distillate (petroleum) hydrotreated heavy naphthenic  
Distillates (petroleum), hydrotreated middle  
Polybutene  
Tall oil

**Inventory of Existing Chemicals Substances in China:**

Distillates (petroleum), hydrotreated middle  
Olefin Sulfide  
Polybutene  
Stoddard solvent  
Zinc Alkyldithiophosphate

**Philippines Inventory of Chemicals and Chemical Substances (PICCS):**

1,3-Butadiene, 2-methyl-, homopolymer  
Decanedioic Acid  
Distillate (petroleum) hydrotreated heavy naphthenic  
Distillates (petroleum), hydrotreated middle  
Lithium hydroxide monohydrate  
Naphtha (petroleum), hydrodesulfurized heavy  
Olefin Sulfide  
Phosphoric acid/Alkyl esters  
Polybutene  
Stoddard solvent  
Tall oil  
Zinc Alkyldithiophosphate

**Taiwan List of Toxic Chemical Substances regulated under Toxic Chemical Substances Control Act:****EU REACH: Annex XVII, Dangerous Substances and Preparations:**

Distillate (petroleum) hydrotreated heavy naphthenic  
Distillates (petroleum), hydrotreated middle  
Naphtha (petroleum), hydrodesulfurized heavy  
Stoddard solvent

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

9-Octadecenoic acid (Z)-, reaction products with diethylenetriamine, oleates (271-549-3)  
Decanedioic Acid (203-845-5)  
Distillate (petroleum) hydrotreated heavy naphthenic (265-155-0)  
Distillates (petroleum), hydrotreated middle (265-148-2)  
Naphtha (petroleum), hydrodesulfurized heavy (265-185-4)  
Olefin Sulfide ()  
Phosphoric acid/Alkyl esters ()  
Polybutene ()  
Stoddard solvent (232-489-3)  
Tall oil (232-304-6)  
Zinc Alkyldithiophosphate ()

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

**Risk Phrases:** Not Classified

<b>SECTION 16</b>	<b>OTHER INFORMATION</b>
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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:

H226 Flammable liquid and vapour  
H304 May be fatal if swallowed and enters airways  
H314 Causes severe skin burns and eye damage  
H335 May cause respiratory irritation  
H411 Toxic to aquatic life with long lasting effects  
EUH066 Repeated exposure may cause skin dryness or cracking

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

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