

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 (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:**

Skin Irrit. 2;H315 Causes skin irritation

Label Elements:

Using the Toxicity Data listed in section 11 & 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. |

HMIS

Health: 2
Fire: 1
Physical: 0
Hazards:
PPE: C

NFPA

Health: 2
Fire: 1
Reactivity: 0

Special Hazards:--**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 | <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 |

| | | | |
|--------------------|----|-------------------------------|-------------------------------------|
| 0001310-66-3 | <3 | Lithium hydroxide monohydrate | Skin Corr. 1;H314 STOT SE 3;H335 |
| Proprietary or N/A | <3 | Olefin Sulfide | Not Classified |
| Proprietary or N/A | <3 | Proprietary additive | Not Classified |

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

SECTION 4 FIRST AID MEASURES

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| 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

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| Extinguishing media: | Use carbon dioxide (CO ₂), dry chemical, or foam to extinguish flames. |
| Special hazards arising from the substance or mixture: | Hazardous decomposition products. May form CO and CO ₂ . |
| 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 |
|--------------------|--|------------------------|--|
| 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/m³ OSHA PEL and 10mg/m³ 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; |
| 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

| | | | |
|--|----------------------|---|------------------|
| Appearance: | ORANGE 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 (H20 = 1): | Not determined |
| Flammability (solid, gas): | Not applicable | Relative density: | 0.9443 |
| 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

Partition coefficient n-octanol/water (Log Kow):

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

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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 CO2. |

SECTION 11**TOXICOLOGICAL INFORMATION****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 | 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 | 2 | Causes skin irritation |
| 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****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 |

| | |
|--|---|
| 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 |

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| 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.

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| 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 |

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| SECTION 15 | REGULATORY INFORMATION |
|-------------------|-------------------------------|

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%): | Zinc Alkyldithiophosphate |
| CERCLA (>0.1%): | 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

| | |
|-------------------|--------------------------|
| 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:

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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