

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

Product Identifier: MOREY'S CRYSTAL BLUE FOOD MACHINERY GREASE EP2

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
AUCKALND 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:

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 HSNO New Zealand.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

| CAS Number | % | Name | EC No. 1272/2008 GHS Classification |
|--------------|-----|-------------------------------------|-------------------------------------|
| 0068037-01-4 | <60 | 1-Decene, homopolymer, hydrogenated | Not Classified |
| 0009003-29-6 | <30 | Polybutene | Not Classified |
| 0068611-44-9 | <20 | Silane treated silica | Not Classified |
| 0000064-17-5 | <3 | Ethanol | Flam. Liq. 2;H225 |
| 0009003-27-4 | <3 | Polyisobutylene | 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 |
|--------------|---------------------------------------|------------------------|---|
| 0000064-17-5 | Ethanol | OSHA ACGIH NIOSH | TWA 1000 ppm (1900 mg/m3) 1000 ppm STEL TWA 1000 ppm (1900 mg/m3) |
| 0009003-27-4 | Polyisobutylene | 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 |
| 0068037-01-4 | 1-Decene, homopolymer hydrogenated | OSHA ACGIH NIOSH | No established limit No established limit No established limit |
| 0068611-44-9 | Silane treated silica | 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 |
|--------------|--|--------------|---|
| 0000064-17-5 | Ethanol | OSHA IARC | Select Carcinogen: No Group 1: Yes; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No; |
| 0009003-27-4 | Polyisobutylene | 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; |
| 0068037-01-4 | 1-Decene, homopolymer, hydrogenated | OSHA IARC | Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No; |
| 0068611-44-9 | Silane treated silica | 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: | 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): | Not measured |
| Flash point (C): | > 200 | Evaporation rate (H2O = 1): | Not determined |
| Flammability (solid, gas): | Not applicable | Relative density: | 0.9615 |
| 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 CO ₂ . |

SECTION 11 TOXICOLOGICAL INFORMATION

Acute toxicity

Exposure to solvent vapour concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

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 |
|--|-------------------------|-------------------------|---|
| 1-Decene, homopolymer, hydrogenated - (0068037-01-4) | >5,000, Rat | >2,000, Rabbit | Not Available |
| Ethanol – (0000064-17-5) | 1,501.00, Rat | Not Available | 124.70, Rat |
| Polybutene - (0009003-29-6) | 34,600.00, Rat | 10,250.00, Rabbit | Not Available |
| Polyisobutylene – (0009003-27-4) | Not Available | Not Available | Not Available |
| Silane treated silica – (0068611-44-9) | 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 |

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| 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 |
|---|------------------------------|-----------------------------------|---|
| 1-Decene, homopolymer hydrogenated – (0068037-01-4) | Not Available | Not Available | Not Available |
| Polybutene - (0009003-29-6) | Not Available | Not Available | Not Available |
| Silane treated silica - (0068611-44-9) | 10,000.00, Danio rerio | 10,000.00 Daphnia magna | 10,000.00 (72 hr) Scenedesmus subspicatus |
| Ethanol – (0000064-17-5) | 42.00, Oncorhynchus mykiss | 2.00, Daphnia magna | 17.921 (96 hr), Ulva pertusa |
| Polyisobutylene – (0009003-27-4) | 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 |
|-------------------|-----------------------------------|

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

Octadecenamide, N-[2-[(2-hydroxyethyl)amino]ethyl]-, monoacetate (salt)

California Proposition 65 Cancer:

Not applicable

California Proposition 65 Developmental:

4-methylpentan-2-one

Methanol

California Proposition 65 Female Reproductive:

Not applicable

California Proposition 65 Male Reproductive:

Not applicable

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

1-Decene, homopolymer, hydrogenated
 1H-Imidazole- 1 -ethanol, 2-(8-heptadecenyl)-4,5-dihydro-
 Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates
 Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene
 Ethanol
 Glycine, N-methyl-N-(1-oxo-9-octadecenyl)-, (Z)-
 Phosphorothioic acid, O,O,O-triphenyl ester
 Polybutene
 Polyisobutylene
 Silane treated silica

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

1-Decene, homopolymer, hydrogenated ()
 1H-Imidazole- 1 -ethanol, 2-(8-heptadecenyl)-4,5-dihydro- (5-425; 5-3496)
 Ethanol (2-202)
 Glycine, N-methyl-N-(1-oxo-9-octadecenyl)-, (Z)- (2-1226; 2-2679; 9-1930)
 Phosphorothioic acid, O,O,O-triphenyl ester (3-3370)
 Polybutene (6-774)
 Polyisobutylene (5-774; 6-774)

Korean Existing Chemicals Inventory:

1-Decene, homopolymer, hydrogenated
 1H-Imidazole- 1 -ethanol, 2-(8-heptadecenyl)-4,5-dihydro-
 Ethanol
 Glycine, N-methyl-N-(1-oxo-9-octadecenyl)-, (Z)-
 Phosphorothioic acid, O,O,O-triphenyl ester
 Polybutene
 Polyisobutylene

Inventory of Existing Chemicals Substances in China:

1-Decene, homopolymer, hydrogenated
 Polybutene
 Polyisobutylene

Philippines Inventory of Chemicals and Chemical Substances (PICCS):

1-Decene, homopolymer, hydrogenated
1H-Imidazole- 1 -ethanol, 2-(8-heptadecenyl)-4,5-dihydro-
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene
Ethanol
Glycine, N-methyl-N-(1-oxo-9-octadecenyl)-, (Z),-
Phosphorothioic acid, O,O,O-triphenyl ester
Polybutene
Polyisobutylene
Silane treated silica

Taiwan List of Toxic Chemical Substances regulated under Toxic Chemical Substances Control Act:**EU REACH: Annex XVII, Dangerous Substances and Preparations:****Inventory - European Union – European Inventory of Existing Commercial Chemical Substances (EINECS):**

1-Decene, homopolymer, hydrogenated ()
1H-Imidazole- 1 -ethanol, 2-(8-heptadecenyl)-4,5-dihydro- (202-414-9)
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates (279-632-6)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (270-128-1)
Ethanol (200-578-6)
Glycine, N-methyl-N-(1-oxo-9-octadecenyl)-, (Z),- (203-749-3)
Phosphorothioic acid, O,O,O-triphenyl ester (209-909-9)
Polybutene ()
Polyisobutylene ()
Silane treated silica (271-893-4)

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

Risk Phrases: Not Classified

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| 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:

H225 Highly flammable liquid and vapour
H304 May be fatal if swallowed and enters airways

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

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