

Product Name: MOBILCUT 140 BF
Revision Date: 01 Dec 2022
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SAFETY DATA SHEET

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| SECTION 1 | IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING |
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As of the revision date above, this SDS meets the regulations in Ireland and Northern Ireland.

1.1. PRODUCT IDENTIFIER

Product Name: MOBILCUT 140 BF
Product Description: Base Oil and Additives
Product Code: 2015703010J1
UFI: U4S1-20NU-J00G-HN50

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Intended Use: Water-miscible cutting fluid

Uses advised against: This product is not recommended for any industrial, professional or consumer use other than the Identified Uses above.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Supplier: ExxonMobil Petroleum & Chemical BVBA
POLDERDIJKWEG
B-2030 Antwerpen
Belgium

Product Technical Information: (IE) 1800 882 024 / (UK) 0800 028 2851
Supplier General Contact: (IE) 1800 882 024 / (UK) 0800 028 2851
SDS Internet Address: www.msds.exxonmobil.com
Supplier / Registrant: (BE) +32 3 790 3111

1.4. EMERGENCY TELEPHONE NUMBER

24 Hour Emergency Telephone: (IE) +353-1-901-4670 (CHEMTREC) / (UK) +44-870-820-04-18 (CHEMTREC)
National Poison Control Centre: (IE) (+353)1 809 2166 (8am - 10pm every day) / (UK) 111

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| SECTION 2 | HAZARDS IDENTIFICATION |
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2.1. CLASSIFICATION OF SUBSTANCE OR MIXTURE

Classification according to Regulation (EC) No 1272/2008

Skin irritation: Category 2., H315: Causes skin irritation.

Eye irritation: Category 2., H319: Causes serious eye irritation.

Chronic aquatic toxicant: Category 3., H412: Harmful to aquatic life with long lasting effects.

2.2. LABEL ELEMENTS

Label elements according to Regulation (EC) No 1272/2008

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Pictograms:



Signal Word: Warning

Hazard Statements:

Health:

H315: Causes skin irritation.

H319: Causes serious eye irritation.

Environment:

H412: Harmful to aquatic life with long lasting effects.

Supplemental:

EUH208: Contains: 2-n-butyl-benzo[d]isothiazol-3-one May produce an allergic reaction.

Precautionary Statements:

Prevention:

P264: Wash skin thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear protective gloves and eye / face protection.

Response:

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313: If skin irritation occurs: Get medical advice/ attention.

P337 + P313: If eye irritation persists: Get medical advice/attention.

P362 + P364: Take off contaminated clothing and wash it before reuse.

Disposal:

P501: Dispose of contents and container in accordance with local regulations.

2.3. OTHER HAZARDS

Physical / Chemical Hazards:

No significant hazards.

Health Hazards:

High-pressure injection under skin may cause serious damage. This product may be used in certain applications where misting can occur. Excessive exposure to liquids and mists may cause skin and eye irritation. In addition, excessive exposure to mists may cause respiratory irritation and damage and aggravate

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pre-existing emphysema or asthma. May be irritating to nose, throat, and lungs.

Environmental Hazards:

No additional hazards. Material does not meet the criteria for PBT or vPvB in accordance with REACH Annex XIII.

Endocrine Disrupting Properties:

Contains no substance(s) known to have endocrine disrupting properties.

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| SECTION 3 | COMPOSITION / INFORMATION ON INGREDIENTS |
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3.1. SUBSTANCES Not Applicable. This material is regulated as a mixture.

3.2. MIXTURES

This material is defined as a mixture.

Reportable hazardous substance(s) complying with the classification criteria and/or with an exposure limit (OEL)

| Name | CAS# | EC# | Registration# | Concentration * | GHS/CLP classification | Specific Conc. Limits, M-factors and ATEs |
|-----------------------------------|------------|-----------|------------------|-----------------|--|---|
| 1-ETHOXY-3-(HEPTADECYLOXY)PROPANE | 68002-96-0 | 614-209-5 | POLYMER | 1 - < 5% | [Aquatic Acute 3 H402], Aquatic Chronic 3 H412 | - |
| 1-PHENOXYPROPAN-2-OL | 770-35-4 | 212-222-7 | 01-2119486566-23 | 1 - < 5% | [Acute Tox. 5 H303], Eye Irrit. 2 H319 | - |
| 2-n-butylbenzo[d]isothiazol-3-one | 4299-07-4 | 420-590-7 | 01-0000016721-74 | < 0.25% | Aquatic Acute 1 H400 (M factor 1), Aquatic Chronic 1 H410 (M factor 1), Skin Corr. 1B H314, Skin Sens. 1 H317 | - |
| 2-phenoxyethanol | 122-99-6 | 204-589-7 | 01-2119488943-21 | 0.1 - < 1% | Acute Tox. 4 H302, STOT SE 3 H335, Eye Dam. 1 H318 | - |
| dicyclohexylamine | 101-83-7 | 202-980-7 | 01-2119493354-33 | 1 - < 2.5% | Acute Tox. 3 H301, Acute Tox. 3 H311, Aquatic Acute 1 H400 (M factor 1), Aquatic Chronic 1 H410 (M factor 1), Skin Corr. 1B H314 | - |
| ETHANOL, 2,2,2-NITRILOTRIS- | 102-71-6 | 203-049-8 | 01-2119486482-31 | 5 - < 10% | OEL | - |
| 2-AMINOETHANOL | 141-43-5 | 205-483-3 | 01-2119486455-28 | 1 - < 5% | [Aquatic Acute 2 H401], Aquatic Chronic 3 H412, [Flam. Liq. 4 H227], Acute Tox. 4 H302, | STOT SE 3 H335 5% ≤ C ≤ 100% ATE (ORAL) = 1089 MG/KG |

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| | | | | | Acute Tox. 4 H312, Acute Tox. 4 H332, STOT SE 3 H335, Skin Corr. 1B H314 | |
|--|--|--|--|--|---|--|

Note - any classification in brackets is a GHS building block that was not adopted by the EU in the CLP regulation (No 1272/2008) and therefore is not applicable in the EU or in non-EU countries which have implemented the CLP regulation and is shown for informational purposes only.

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Note: See SDS Section 16 for full text of hazard statements.

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| SECTION 4 | FIRST AID MEASURES |
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4.1. DESCRIPTION OF FIRST AID MEASURES

INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

SKIN CONTACT

Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

EYE CONTACT

Flush thoroughly with water for at least 15 minutes. Get medical assistance.

INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Eye pain, redness, tearing, swelling of eyelids, itching. Itching, pain, redness, swelling of skin. Local necrosis as evidenced by delayed onset of pain and tissue damage a few hours after injection. Itching and rash from allergic skin reaction.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Pre-existing conditions which may be aggravated by exposure include emphysema and asthma.

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| SECTION 5 | FIRE FIGHTING MEASURES |
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5.1. EXTINGUISHING MEDIA

Suitable Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

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Unsuitable Extinguishing Media: Straight streams of water

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Hazardous Combustion Products: Incomplete combustion products, Nitrogen oxides, Oxides of carbon, Phosphorus oxides, Smoke, Fume

5.3. ADVICE FOR FIRE FIGHTERS

Fire Fighting Instructions: Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards: Pressurised mists may form a flammable mixture. Hazardous material. Firefighters should consider protective equipment indicated in Section 8.

FLAMMABILITY PROPERTIES

Flash Point [Method]: >100°C (212°F) [EN/ISO 2592]

Upper/Lower Flammable Limits (Approximate volume % in air): UEL: No data available LEL: No data available

Autoignition Temperature: No data available

SECTION 6

ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

PROTECTIVE MEASURES

Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required, due to toxicity or flammability of the material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

For emergency responders: Respiratory protection: respiratory protection will be necessary only in special cases, e.g., formation of mists. Half-face or full-face respirator with filter(s) for dust/organic vapor or Self Contained Breathing Apparatus (SCBA) can be used depending on the size of spill and potential level of exposure. If the exposure cannot be completely characterized or an oxygen deficient atmosphere is possible or anticipated, SCBA is recommended. Work gloves that are resistant to hydrocarbons are recommended. Gloves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable for emergency use. Chemical goggles are recommended if splashes or contact with eyes is possible. Small spills: normal antistatic work clothes are usually adequate. Large spills: full body suit of chemical resistant, antistatic material is recommended.

6.2. ENVIRONMENTAL PRECAUTIONS

Large Spills: Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways,

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sewers, basements or confined areas.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Land Spill: Stop leak if you can do so without risk. Do not touch or walk through spilled material. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do so without risk. Seek advice of a specialist. This product emulsifies, disperses or is miscible in water.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

6.4. REFERENCES TO OTHER SECTIONS

See Sections 8 and 13.

SECTION 7 HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Avoid breathing mists or vapour. Avoid contact with skin. Avoid contact with eyes. Prevent small spills and leakage to avoid slip hazard. Small metal particles from machining may cause abrasion of the skin and may predispose to dermatitis.

Static Accumulator: This material is not a static accumulator.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Do not allow material to freeze. Do not store in open or unlabelled containers.

Storage Temperature: 5°C (41°F) - 40°C (104°F)

7.3. SPECIFIC END USES

Section 1 informs about identified end-uses. No industrial or sector specific guidance available.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

EXPOSURE LIMIT VALUES

Exposure limits/standards (Note: Exposure limits are not additive)

| Substance Name | Form | Limit/Standard | | | Note | Source |
|-----------------------------|------|----------------|-----------|-------|------|--------------|
| 2-AMINOETHANOL | | STEL | 7.6 mg/m3 | 3 ppm | Skin | UK EH40 |
| 2-AMINOETHANOL | | STEL | 7.6 mg/m3 | 3 ppm | Skin | Ireland OELs |
| 2-AMINOETHANOL | | TWA | 2.5 mg/m3 | 1 ppm | Skin | UK EH40 |
| 2-AMINOETHANOL | | TWA | 2.5 mg/m3 | 1 ppm | Skin | Ireland OELs |
| 2-AMINOETHANOL | | STEL | 6 ppm | | | ACGIH |
| 2-AMINOETHANOL | | TWA | 3 ppm | | | ACGIH |
| ETHANOL, 2,2,2-NITRILOTRIS- | | TWA | 5 mg/m3 | | | Ireland OELs |

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|-----------------------------|--|-----|---------------------|--|-------|
| ETHANOL, 2,2,2-NITRILOTRIS- | | TWA | 5 mg/m ³ | | ACGIH |
|-----------------------------|--|-----|---------------------|--|-------|

IE - Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)
 UK - EH40 Workplace Exposure Limits. Exposure limits for use with Control of Substances Hazardous to Health Regulations 2002 (as amended)

Exposure limits/standards for materials that can be formed when handling this product: When mists/aerosols can occur the following is recommended: 5 mg/m³ - ACGIH TLV (inhalable fraction).

Note: Information about recommended monitoring procedures can be obtained from the relevant agency(ies)/institute(s):

IE Health and Safety Executive (HSE)
 UK Health and Safety Executive (HSE)

8.2. EXPOSURE CONTROLS

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:
 No special requirements under ordinary conditions of use and with adequate ventilation.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

Particulate air-purifying respirator approved for dust or oil mist is recommended. European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 provide filter recommendations.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves. Nitrile, minimum 0.38 mm thickness or comparable protective barrier material with a high performance level for continuous contact use conditions, permeation breakthrough minimum 480 minutes in accordance with CEN standards EN 420 and EN 374.

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Eye Protection: Chemical goggles are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:
Chemical/oil resistant clothing is recommended.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Colour: Yellow
Odour: Characteristic
Odour Threshold: No data available
Melting Point / Freezing Point: No data available / No data available
Initial Boiling Point / and Boiling Range: > 100°C (212°F) [test method unavailable]
Flammability (Solid, Gas): Not technically feasible
Lower and Upper explosion limit: UEL: No data available LEL: No data available
Flash Point [Method]: >100°C (212°F) [EN/ISO 2592]
Autoignition Temperature: No data available
Decomposition Temperature: No data available
pH: 10[test method unavailable]
Kinematic Viscosity: [N/D at 40°C] | 122 cSt (122 mm²/sec) at 20°C [ISO 3104]
Solubility: Complete
Partition coefficient (n-Octanol/Water Partition Coefficient): No data available
Vapour Pressure: < 0.013 kPa (0.1 mm Hg) at 20 °C [test method unavailable]
Relative Density (at 15 °C): 0.986 [EN ISO 12185]
Relative Vapour Density (Air = 1): No data available
Evaporation Rate (n-butyl acetate = 1): No data available
Explosive Properties: None
Oxidizing Properties: None
Particle Characteristics
Median particle size: Not Applicable

9.2. OTHER INFORMATION

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DMSO Extract (mineral oil only), IP-346: < 3 %wt

9.2.1. INFORMATION WITH REGARD TO PHYSICAL HAZARD CLASSES

No data available

9.2.2. OTHER SAFETY CHARACTERISTICS

No data available

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| SECTION 10 | STABILITY AND REACTIVITY |
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10.1. REACTIVITY: See sub-sections below.

10.2. CHEMICAL STABILITY: Material is stable under normal conditions.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

10.4. CONDITIONS TO AVOID: Heat/ Freezing temperatures. High energy sources of ignition.

10.5. INCOMPATIBLE MATERIALS: Strong oxidisers

10.6. HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

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| SECTION 11 | TOXICOLOGICAL INFORMATION |
|-------------------|----------------------------------|

11.1. INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008

| Hazard Class | Conclusion / Remarks |
|--|--|
| Inhalation | |
| Acute Toxicity: No end point data for material. | Minimally Toxic. Based on assessment of the components. |
| Irritation: No end point data for material. | Elevated temperatures or mechanical action may form vapours, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs. |
| Ingestion | |
| Acute Toxicity: No end point data for material. | Minimally Toxic. Based on assessment of the components. |
| Skin | |
| Acute Toxicity: No end point data for material. | Minimally Toxic. Based on assessment of the components. |
| Skin Corrosion/Irritation: No end point data for material. | Irritating to the skin. Based on assessment of the components. |
| Eye | |
| Serious Eye Damage/Irritation: No end point data for material. | Irritating and will injure eye tissue. Based on assessment of the components. |
| Sensitisation | |
| Respiratory Sensitization: No end point data for material. | Not expected to be a respiratory sensitizer. |
| Skin Sensitization: No end point data for material. | Contains a substance that may cause skin sensitization. Based on assessment of the components. |
| Aspiration: Data available. | Not expected to be an aspiration hazard. Based on physico- |

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| | chemical properties of the material. |
| Germ Cell Mutagenicity: No end point data for material. | Not expected to be a germ cell mutagen. Based on assessment of the components. |
| Carcinogenicity: No end point data for material. | Not expected to cause cancer. Based on assessment of the components. |
| Reproductive Toxicity: No end point data for material. | Not expected to be a reproductive toxicant. Based on assessment of the components. |
| Lactation: No end point data for material. | Not expected to cause harm to breast-fed children. |
| Specific Target Organ Toxicity (STOT) | |
| Single Exposure: No end point data for material. | Not expected to cause organ damage from a single exposure. |
| Repeated Exposure: No end point data for material. | Not expected to cause organ damage from prolonged or repeated exposure. Based on assessment of the components. |

TOXICITY FOR SUBSTANCES

| NAME | ACUTE TOXICITY |
|------------------|--|
| 2-AMINOETHANOL | Oral Lethality: LD 50 1089 mg/kg (Rat) |
| 2-phenoxyethanol | Oral Lethality: LD 50 1840 mg/kg (Rat) |

11.2. INFORMATION ON OTHER HAZARDS

11.2.1 ENDOCRINE DISRUPTING PROPERTIES

Contains no substance(s) known to have endocrine disrupting properties that affect human health.

11.2.2 OTHER INFORMATION

For the product itself:

An ingredient or ingredients that are classified as a skin sensitizer.

Oil Mist (highly refined oils): Animals exposed to high concentrations of mist developed oil retention, inflammation, and oil granulomas in the respiratory tract. Oils exposed to high temperatures, cracking conditions, or mixing with tramp / used oils may introduce polycyclic aromatic compounds or microbial contaminants that could result in cancer or severe respiratory hazards.

Contains:

Alkanolamines: Repeated overexposure to alkanolamines caused liver and kidney damage in laboratory animals.

ETHANOLAMINE: Repeated overexposure to ethanolamine has caused liver and kidney damage in laboratory animals. Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitising in test animals.

SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

12.1. TOXICITY

Material -- Expected to be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

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12.2. PERSISTENCE AND DEGRADABILITY

Biodegradation:

Base oil component -- Expected to be inherently biodegradable

12.3. BIOACCUMULATIVE POTENTIAL Not determined.

12.4. MOBILITY IN SOIL

Not determined.

12.5. PERSISTENCE, BIOACCUMULATION AND TOXICITY FOR SUBSTANCE(S)

Material does not meet the Reach Annex XIII criteria for PBT or vPvB.

12.6. ENDOCRINE DISRUPTING PROPERTIES

Contains no substance(s) known to have endocrine disrupting properties that affect the environment.

12.7. OTHER ADVERSE EFFECTS

No adverse effects are expected.

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| SECTION 13 | DISPOSAL CONSIDERATIONS |
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Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

13.1. WASTE TREATMENT METHODS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

European Waste Code: 12 01 07*

NOTE: These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s).

This material is considered as hazardous waste pursuant to The Hazardous Waste Regulations (HWR), and subject to the provisions of those Regulations.

Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. **DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.**

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| SECTION 14 | TRANSPORT INFORMATION |
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LAND (ADR/RID): 14.1-14.6 Not Regulated for Land Transport

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INLAND WATERWAYS (ADN): 14.1-14.6 Not Regulated for Inland Waterways Transport

SEA (IMDG): 14.1-14.6 Not Regulated for Sea Transport according to IMDG-Code

SEA (MARPOL 73/78 Convention - Annex II):

14.7. Maritime transport in bulk according to IMO instruments
Not classified according to Annex II

AIR (IATA): 14.1-14.6 Not Regulated for Air Transport

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| SECTION 15 | REGULATORY INFORMATION |
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REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Listed or exempt from listing/notification on the following chemical inventories : AIIIC, ENCS, IECSC, KECI, TCSI, TSCA

Special Cases:

| Inventory | Status |
|-----------|--------------------|
| NDSL | Restrictions Apply |

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Applicable EU Directives and Regulations:

1907/2006 [... on the Registration, Evaluation, Authorisation and Restriction of Chemicals ... and amendments thereto]

689/2008/EC [...concerning the export and import of dangerous substances and amendments thereto]

1272/2008 [on classification, labelling and packaging of substances and mixtures.. and amendments thereto]

REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII):

The following entries of Annex XVII may be considered for this product: None

15.2. CHEMICAL SAFETY ASSESSMENT

REACH Information: A Chemical Safety Assessment has been carried out for one or more substances present in the material.

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| SECTION 16 | OTHER INFORMATION |
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REFERENCES: Sources of information used in preparing this SDS included one or more of the following: results from in house or supplier toxicology studies, CONCAWE Product Dossiers, publications from other trade associations, such as the EU Hydrocarbon Solvents REACH Consortium, U.S. HPV Program Robust Summaries, the EU IUCLID Data Base, U.S. NTP publications, and other sources, as appropriate.

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

| Acronym | Full text |
|----------------|--|
| N/A | Not applicable |
| N/D | Not determined |
| NE | Not established |
| VOC | Volatile Organic Compound |
| AIC | Australian Inventory of Industrial Chemicals |
| AIHA WEEL | American Industrial Hygiene Association Workplace Environmental Exposure Limits |
| ASTM | ASTM International, originally known as the American Society for Testing and Materials (ASTM) |
| DSL | Domestic Substance List (Canada) |
| EINECS | European Inventory of Existing Commercial Substances |
| ELINCS | European List of Notified Chemical Substances |
| ENCS | Existing and new Chemical Substances (Japanese inventory) |
| IECSC | Inventory of Existing Chemical Substances in China |
| KECI | Korean Existing Chemicals Inventory |
| NDSL | Non-Domestic Substances List (Canada) |
| NZIoC | New Zealand Inventory of Chemicals |
| PICCS | Philippine Inventory of Chemicals and Chemical Substances |
| TLV | Threshold Limit Value (American Conference of Governmental Industrial Hygienists) |
| TSCA | Toxic Substances Control Act (U.S. inventory) |
| UVCB | Substances of Unknown or Variable composition, Complex reaction products or Biological materials |
| LC | Lethal Concentration |
| LD | Lethal Dose |
| LL | Lethal Loading |
| EC | Effective Concentration |
| EL | Effective Loading |
| NOEC | No Observable Effect Concentration |
| NOELR | No Observable Effect Loading Rate |

Classification according to Regulation (EC) No 1272/2008

| Classification according to Regulation (EC) No 1272/2008 | Classification procedure |
|---|---------------------------------|
| Aquatic Chronic 3; H412 | Calculation |
| Eye Irrit. 2; H319 | Calculation |
| Skin Irrit. 2; H315 | Calculation |

KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):

[Flam. Liq. 4 H227]: Combustible liquid; Flammable Liquid, Cat 4
 Acute Tox. 3 H301: Toxic if swallowed; Acute Tox Oral, Cat 3
 Acute Tox. 4 H302: Harmful if swallowed; Acute Tox Oral, Cat 4
 [Acute Tox. 5 H303]: May be harmful if swallowed; Acute Tox Oral, Cat 5
 Acute Tox. 3 H311: Toxic in contact with skin; Acute Tox Dermal, Cat 3
 Acute Tox. 4 H312: Harmful in contact with skin; Acute Tox Dermal, Cat 4

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Skin Corr. 1B H314: Causes severe skin burns and eye damage; Skin Corr/Irritation, Cat 1B
Skin Sens. 1 H317: May cause allergic skin reaction; Skin Sensitization, Cat 1
Eye Dam. 1 H318: Causes serious eye damage; Serious Eye Damage/Irr, Cat 1
Eye Irrit. 2 H319: Causes serious eye irritation; Serious Eye Damage/Irr, Cat 2
Acute Tox. 4 H332: Harmful if inhaled; Acute Tox Inh, Cat 4
STOT SE 3 H335: May cause respiratory irritation; Target Organ Single, Resp Irr
Aquatic Acute 1 H400: Very toxic to aquatic life; Acute Env Tox, Cat 1
[Aquatic Acute 2 H401]: Toxic to aquatic life; Acute Env Tox, Cat 2
[Aquatic Acute 3 H402]: Harmful to aquatic life; Acute Env Tox, Cat 3
Aquatic Chronic 1 H410: Very toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 1
Aquatic Chronic 3 H412: Harmful to aquatic life with long lasting effects; Chronic Env Tox, Cat 3

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Composition: Component Table for REACH information was modified.
Section 08: Exposure Limits Table information was modified.
Section 09 median particle size information was added.
Section 09: Freezing Point °C(°F) information was deleted.
Section 09: Melting Point C(F) information was deleted.
Section 11 EU Annex II Endocrine Disruptor Data information was added.
Section 12 EU Annex II Endocrine Disruptor Data information was added.
Section 2 EU Annex II Endocrine Disruptor Data information was added.
Section 9 melting and freezing points information was added.

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MHC: 0, 0, 0, 2, 4, 1

PPEC: D

DGN: 7219085XIE (1032878)

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| ANNEX |
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Annex not required for this material.