

Product Name: MOBILCUT 100-NEW
Revision Date: 12 Oct 2021
Page 1 of 10

SAFETY DATA SHEET

SECTION 1**PRODUCT AND COMPANY IDENTIFICATION**

As of the revision date above, this (M)SDS meets the regulations in United Arab Emirates.

PRODUCT

Product Name: MOBILCUT 100-NEW
Product Description: Base Oil and Additives
Product Code: 2015703010W0, 662635-60
Intended Use: Water-miscible cutting fluid

COMPANY IDENTIFICATION

Supplier: EXXONMOBIL
407, EMARAT ATRIUM
SHEIKH ZAYED ROAD
P.O. BOX 33369
DUBAI
United Arab Emirates

Product Technical Information

+20 2 795 4850 (ARABIC, ENGLISH, FRENCH)

National Poison Centre: BAHRAIN +973 1787 5176 / LEBANON +961 1 6140 01 OR 2 OR 3 OR 6 / KUWAIT
+965 246 8537 OR 241 8165 / UAE +971 2 4048 538 OR 540 OR 541

SECTION 2**HAZARDS IDENTIFICATION**

This material is hazardous according to regulatory guidelines (see (M)SDS Section 15).

CLASSIFICATION OF SUBSTANCE OR MIXTURE:

Skin Sensitizer: Category 1.
Chronic aquatic toxicant: Category 3.

LABEL ELEMENTS:**Pictograms:**

Signal Word: Warning

Hazard Statements:

Product Name: MOBILCUT 100-NEW

Revision Date: 12 Oct 2021

Page 2 of 10

Health:

H317: May cause allergic skin reaction.

Environment:

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:

P261: Avoid breathing mist / vapours.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves.

Response:

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

P333 + P313: If skin irritation or rash occurs: 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.

Contains: 2-METHYL-4 ISOTHIAZOLIN-3-ON

Other hazard information:

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 pre-existing emphysema or asthma. Mildly irritating to skin with prolonged exposure.

Environmental Hazards:

No additional hazards.

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

This material is defined as a mixture.

No Reportable Hazardous Substance(s) or Complex Substance(s).

| Name | CAS# | Concentration* | GHS Hazard Codes |
|------------------------------|-----------|----------------|--|
| 1,2-BENZISOTHIAZOL-3(2H)-ONE | 2634-33-5 | < 0.05% | H302, H317, H315, H318, H400(M factor 1), H411 |

Product Name: MOBILCUT 100-NEW

Revision Date: 12 Oct 2021

Page 3 of 10

| | | | |
|------------------------------------|------------|----------------|--|
| 2-METHYL-4 ISOTHIAZOLIN-3-ON | 2682-20-4 | 0.025 - < 0.1% | H301, H311, H317, H330(2), H314(1B), H400(M factor 10), H410(M factor 1) |
| 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | 0.1 - < 0.25% | H302, H317, H331, H318, H372, H400(M factor 10), H410(M factor 1) |
| ETHANOL, 2-(2-BUTOXYETHOXY)- | 112-34-5 | 1 - < 5% | H319(2A) |
| ETHOXYLATED C16-C18 FATTY ALCOHOLS | 68920-66-1 | 2.5 - < 5% | H315, H402, H411 |
| SODIUM PETROLEUM SULPHONATE | 68608-26-4 | 1 - < 5% | H317, H319(2A) |

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

| | |
|------------------|---------------------------|
| SECTION 4 | 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. If irritation occurs, get medical assistance.

INGESTION

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

NOTE TO PHYSICIAN

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

| | |
|------------------|-------------------------------|
| SECTION 5 | FIRE FIGHTING MEASURES |
|------------------|-------------------------------|

EXTINGUISHING MEDIA

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

Inappropriate Extinguishing Media: Straight Streams of Water

FIRE FIGHTING

Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters 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: Pressurized mists may form a flammable mixture.

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

FLAMMABILITY PROPERTIES

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

Flammable Limits (Approximate volume % in air): LEL: 0.6 UEL: 6.5

Autoignition Temperature: N/D

| | |
|------------------|------------------------------------|
| SECTION 6 | ACCIDENTAL RELEASE MEASURES |
|------------------|------------------------------------|

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.

SPILL MANAGEMENT

Land Spill: Stop leak if you can do it 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 it 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.

ENVIRONMENTAL PRECAUTIONS

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

| | |
|------------------|-----------------------------|
| SECTION 7 | HANDLING AND STORAGE |
|------------------|-----------------------------|

Product Name: MOBILCUT 100-NEW
 Revision Date: 12 Oct 2021
 Page 5 of 10

HANDLING

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

Static Accumulator: This material is not a static accumulator.

STORAGE

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

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

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

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

| Substance Name | Form | Limit / Standard | | | Note | Source |
|------------------------------|------------------------------|------------------|--------|--|------|--------|
| ETHANOL, 2-(2-BUTOXYETHOXY)- | Inhalable fraction and vapor | TWA | 10 ppm | | | ACGIH |

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):

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 / oil mist is recommended.

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/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Product Name: MOBILCUT 100-NEW

Revision Date: 12 Oct 2021

Page 6 of 10

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.

Eye Protection: If contact is likely, safety glasses with side shields are recommended. Chemical type goggles should be worn during misting operations.

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.

GENERAL INFORMATION

Physical State: Liquid

Color: Brown

Odor: Characteristic

Odor Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 20 °C): 0.979 [EN ISO 12185]

Flammability (Solid, Gas): N/A

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

Flammable Limits (Approximate volume % in air): LEL: 0.6 UEL: 6.5

Autoignition Temperature: N/D

Boiling Point / Range: N/D

Decomposition Temperature: N/D

Vapor Density (Air = 1): N/D

Vapor Pressure: < 0.013 kPa (0.1 mm Hg) at 20 °C

Evaporation Rate (n-butyl acetate = 1): N/D

pH: 9.3

Log Pow (n-Octanol/Water Partition Coefficient): N/D

Solubility in Water: Emulsifies

Viscosity: [N/D at 40 °C] | 120 cSt (120 mm²/sec) at 20°C

Product Name: MOBILCUT 100-NEW
 Revision Date: 12 Oct 2021
 Page 7 of 10

Oxidizing Properties: See Hazards Identification Section.

OTHER INFORMATION

Freezing Point: N/D
Melting Point: N/D
DMSO Extract (mineral oil only), IP-346: < 3 %wt

| | |
|-------------------|---------------------------------|
| SECTION 10 | STABILITY AND REACTIVITY |
|-------------------|---------------------------------|

STABILITY: Material is stable under normal conditions.

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

MATERIALS TO AVOID: Strong oxidizers

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

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

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

ACUTE TOXICITY

| <u>Route of Exposure</u> | <u>Conclusion / Remarks</u> |
|---|---|
| Inhalation | |
| 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 vapors, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs. |
| INGESTION | |
| Toxicity: No end point data for material. | Minimally Toxic. Based on assessment of the components. |
| Skin | |
| Toxicity: No end point data for material. | Minimally Toxic. Based on assessment of the components. |
| Irritation: No end point data for material. | Mildly irritating to skin with prolonged exposure. Based on assessment of the components. |
| Eye | |
| Irritation: No end point data for material. | May cause mild, short-lasting discomfort to eyes. Based on assessment of the components. |

OTHER HEALTH EFFECTS FROM SHORT AND LONG TERM EXPOSURE

Anticipated health effects from sub-chronic, chronic, respiratory or skin sensitization, mutagenicity, reproductive toxicity, carcinogenicity, target organ toxicity (single exposure or repeated exposure), aspiration toxicity and other effects based on human experience and/or experimental data.

For the product itself:

Oil Mist (highly refined oils): Animals exposed to high concentrations of mist developed oil retention,

Product Name: MOBILCUT 100-NEW

Revision Date: 12 Oct 2021

Page 8 of 10

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:

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 sensitizing in test animals.

GLYCOL ETHERS: Some glycol ethers cause adverse effects in animals that include the reproductive system, offspring, blood, kidney and liver.

MONO- AND DI-ETHYLENE GLYCOLS: Oral exposure may produce kidney damage.

| | |
|-------------------|-------------------------------|
| 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.

ECOTOXICITY

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

PERSISTENCE AND DEGRADABILITY

Biodegradation:

Base oil component -- Expected to be inherently biodegradable

| | |
|-------------------|--------------------------------|
| SECTION 13 | DISPOSAL CONSIDERATIONS |
|-------------------|--------------------------------|

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.

DISPOSAL RECOMMENDATIONS

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.

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.**

| | |
|-------------------|------------------------------|
| SECTION 14 | TRANSPORT INFORMATION |
|-------------------|------------------------------|

LAND (ADR/RID): Not Regulated for Land Transport

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

Product Name: MOBILCUT 100-NEW
Revision Date: 12 Oct 2021
Page 9 of 10

Marine Pollutant: No

AIR (IATA): Not Regulated for Air Transport

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

This material is considered hazardous according to the Classification of Chemicals based on Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Listed or exempt from listing/notification on the following chemical inventories : DSL, IECSC, PICCS, TSCA

| | |
|-------------------|--------------------------|
| SECTION 16 | OTHER INFORMATION |
|-------------------|--------------------------|

N/D = Not determined, N/A = Not applicable

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

H301: Toxic if swallowed; Acute Tox Oral, Cat 3
H302: Harmful if swallowed; Acute Tox Oral, Cat 4
H311: Toxic in contact with skin; Acute Tox Dermal, Cat 3
H314(1B): Causes severe skin burns and eye damage; Skin Corr/Irritation, Cat 1B
H315: Causes skin irritation; Skin Corr/Irritation, Cat 2
H317: May cause allergic skin reaction; Skin Sensitization, Cat 1
H318: Causes serious eye damage; Serious Eye Damage/Irr, Cat 1
H319(2A): Causes serious eye irritation; Serious Eye Damage/Irr, Cat 2A
H330(2): Fatal if inhaled; Acute Tox Inh, Cat 2
H331: Toxic if inhaled; Acute Tox Inh, Cat 3
H372: Causes damage to organs through prolonged or repeated exposure; Target Organ, Repeated, Cat 1
H400: Very toxic to aquatic life; Acute Env Tox, Cat 1
H402: Harmful to aquatic life; Acute Env Tox, Cat 3
H410: Very toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 1
H411: Toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 2

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

GHS Precautionary Statements - Prevention information was modified.

The information and recommendations contained herein are, to the best of ExxonMobil's knowledge and belief, accurate and reliable as of the date issued. You can contact ExxonMobil to insure that this document is the most current available from ExxonMobil. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted. The term, "ExxonMobil" is used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliates in which they directly or indirectly hold any interest.

Product Name: MOBILCUT 100-NEW
Revision Date: 12 Oct 2021
Page 10 of 10

Internal Use Only

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

PPEC: C

DGN: 7182410XAE (1027615)
