

Product Name: MOBILCUT 230  
Revision Date: 01 Dec 2022  
Revision Number: 5.00  
Page 1 of 16

## SAFETY DATA SHEET

<b>SECTION 1</b>	<b>IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING</b>
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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 230  
**Product Description:** Base Oil and Additives  
**Product Code:** 2015703010K0, 661983-60

### 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](http://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

<b>SECTION 2</b>	<b>HAZARDS IDENTIFICATION</b>
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### 2.1. CLASSIFICATION OF SUBSTANCE OR MIXTURE

#### Classification according to Regulation (EC) No 1272/2008

Reproductive toxicant (developmental): Category 1B. Reproductive toxicant (fertility): Category 1B., H360FD: May damage fertility. May damage the unborn child.

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

Product Name: MOBILCUT 230  
Revision Date: 01 Dec 2022  
Revision Number: 5.00  
Page 2 of 16

---

## Pictograms:



**Signal Word:** Danger

## Hazard Statements:

Health:

H360FD: May damage fertility. May damage the unborn child.

Environment:

H412: Harmful to aquatic life with long lasting effects.

Supplemental:

EUH208: Contains: 3-iodo-2-propynyl butylcarbamate May produce an allergic reaction.

## Precautionary Statements:

Prevention:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P273: Avoid release to the environment.

P280: Wear protective gloves and clothing.

Response:

P308 + P313: IF exposed or concerned: Get medical advice/ attention.

Storage:

P405: Store locked up.

Disposal:

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

**Contains:** boric acid

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

### Environmental Hazards:

Product Name: MOBILCUT 230  
 Revision Date: 01 Dec 2022  
 Revision Number: 5.00  
 Page 3 of 16

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.

<b>SECTION 3</b>	<b>COMPOSITION / INFORMATION ON INGREDIENTS</b>
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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
2-BUTYLOCTAN-1-OL	3913-02-8	223-470-0	01-2119978234-31	1 - 5%	Aquatic Acute 1 H400 (M factor 1), Aquatic Chronic 2 H411	-
3-iodo-2-propynyl butylcarbamate	55406-53-6	259-627-5	01-2120762115-60	0.1 - 0.5%	Acute Tox. 3 H331, Acute Tox. 4 H302, Skin Sens. 1B H317, Aquatic Acute 1 H400 (M factor 10), Aquatic Chronic 1 H410 (M factor 1), Eye Dam. 1 H318, STOT RE 1 H372	Skin Sens. 1B H317 1% ≤ C ≤ 100% ATE (INH) = 0.68 MG/L, ATE (ORAL) = 1056 MG/KG
OLIGOMERISATION PRODUCTS OF ETHYLENE OXIDE WITH REACTION PRODUCTS OF RAPE OIL AND ETHANOLAMINE	-	932-164-2	01-2119565130-50	1 - < 5%	[Aquatic Acute 3 H402], Aquatic Chronic 3 H412, Skin Irrit. 2 H315	-
boric acid	10043-35-3	233-139-2	01-2119486683-25	< 5.5%	Repr. 1B H360D, Repr. 1B H360F	-
BORIC ACID, COMPD. with 2-AMINOETHANOL	68425-67-2	270-367-1	NE	10 - < 20%	OEL	-
ETHANOL, 2-(2-BUTOXYETHOXY)-	112-34-5	203-961-6	01-2119475104-44	1 - 5%	Eye Irrit. 2 H319	-
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	265-156-6	01-2119480375-34	15 - 20%	Asp. Tox. 1 H304	-

Product Name: MOBILCUT 230

Revision Date: 01 Dec 2022

Revision Number: 5.00

Page 4 of 16

POLY(OXY-1,2-ETHANEDIYL), a-(CARBOXYMETHYL)-w-HYDROXY-, C12-14-ALKYL ETHERS	220622-96-8		NE	0.1 - < 1%	Skin Irrit. 2 H315, Eye Dam. 1 H318	-
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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.

## SECTION 4 FIRST AID MEASURES

### 4.1. DESCRIPTION OF FIRST AID MEASURES

#### INHALATION

Immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with a mechanical device.

#### 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

Seek immediate medical attention.

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

Local necrosis as evidenced by delayed onset of pain and tissue damage a few hours after injection.

### 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.

## SECTION 5 FIRE FIGHTING MEASURES

### 5.1. EXTINGUISHING MEDIA

**Suitable Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

Product Name: MOBILCUT 230  
Revision Date: 01 Dec 2022  
Revision Number: 5.00  
Page 5 of 16

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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, 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]:** >140°C (284°F) [EN/ISO 2592]

**Upper/Lower Flammable Limits (Approximate volume % in air):** UEL: 6.5 LEL: 0.6 [test method unavailable]

**Autoignition Temperature:** >240°C (464°F) [test method unavailable]

## 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,

Product Name: MOBILCUT 230  
 Revision Date: 01 Dec 2022  
 Revision Number: 5.00  
 Page 6 of 16

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. 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 all personal contact. 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 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
boric acid		TWA	2 mg/m <sup>3</sup>			Ireland OELs
boric acid	Inhalable fraction.	STEL	6 mg/m <sup>3</sup>			ACGIH
boric acid	Inhalable fraction.	TWA	2 mg/m <sup>3</sup>			ACGIH
ETHANOL, 2-(2-BUTOXYETHOXY)-		STEL	101.2 mg/m <sup>3</sup>	15 ppm		Ireland OELs
ETHANOL, 2-(2-BUTOXYETHOXY)-		STEL	101.2 mg/m <sup>3</sup>	15 ppm		UK EH40

Product Name: MOBILCUT 230

Revision Date: 01 Dec 2022

Revision Number: 5.00

Page 7 of 16

ETHANOL, 2-(2 BUTOXYETHOXY)-		TWA	67.5 mg/m <sup>3</sup>	10 ppm		UK EH40
ETHANOL, 2-(2 BUTOXYETHOXY)-		TWA	67.5 mg/m <sup>3</sup>	10 ppm		Ireland OELs
ETHANOL, 2-(2 BUTOXYETHOXY)-	Inhalable fraction and vapour	TWA	10 ppm			ACGIH
Distillates (petroleum), hydrotreated light naphthenic	Inhalable fraction.	TWA	5 mg/m <sup>3</sup>			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/m<sup>3</sup> - 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)

#### DERIVED NO EFFECT LEVEL (DNEL)/DERIVED MINIMAL EFFECT LEVEL (DMEL)

##### Worker

Substance Name	Dermal	Inhalation
ETHANOL, 2-(2 BUTOXYETHOXY)-	20 mg/kg bw/day DNEL, Chronic Exposure, Systemic Effects	67.5 mg/m <sup>3</sup> DNEL, Chronic Exposure, Systemic Effects
boric acid	392 mg/kg bw/day DNEL, Chronic Exposure, Systemic Effects	8.3 mg/m <sup>3</sup> DNEL, Chronic Exposure, Systemic Effects

##### Consumer

Substance Name	Dermal	Inhalation	Oral
ETHANOL, 2-(2 BUTOXYETHOXY)-	10 mg/kg bw/day DNEL, Chronic Exposure, Systemic Effects	34 mg/m <sup>3</sup> DNEL, Chronic Exposure, Systemic Effects	NA
boric acid	196 mg/kg bw/day DNEL, Chronic Exposure, Systemic Effects	4.15 mg/m <sup>3</sup> DNEL, Chronic Exposure, Systemic Effects	0.98 mg/kg bw/day DNEL, Chronic Exposure, Systemic Effects

Note: The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived from toxicity data in accord with specific guidance within the REACH regulation. The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs may be recommended by an individual company, a governmental regulatory body or an expert organization, such as the Scientific Committee for Occupational Exposure Limits (SCOEL) or the American Conference of Governmental Industrial Hygienists (ACGIH). OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute short-term exposure limit (STEL). While also considered to be protective of health, OELs are derived by a process different from that of REACH.

## PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance Name	Aqua (fresh water)	Aqua (marine water)	Aqua (intermittent release)	Sewage treatment plant	Sediment	Soil	Oral (secondary poisoning)
ETHANOL, 2-(2-BUTOXYETHOXY)-	NA	NA	NA	NA	NA	NA	NA
boric acid	NA	NA	NA	NA	NA	NA	NA

## 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.

**Eye Protection:** 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:



Product Name: MOBILCUT 230  
Revision Date: 01 Dec 2022  
Revision Number: 5.00  
Page 9 of 16

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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.

<b>SECTION 9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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**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:** Brown  
**Odour:** Characteristic  
**Odour Threshold:** No data available  
**Melting Point / Freezing Point:** Not technically feasible / No data available  
**Initial Boiling Point / and Boiling Range:** > 160°C (320°F) [test method unavailable]  
**Flammability (Solid, Gas):** Not technically feasible  
**Lower and Upper explosion limit:** UEL: 6.5 LEL: 0.6 [test method unavailable]  
**Flash Point [Method]:** >140°C (284°F) [EN/ISO 2592]  
**Autoignition Temperature:** >240°C (464°F) [test method unavailable]  
**Decomposition Temperature:** No data available  
**pH:** 9.2 [test method unavailable]  
**Kinematic Viscosity:** [N/D at 40°C] | 125 cSt (125 mm<sup>2</sup>/sec) at 20°C [test method unavailable]  
**Solubility:** Emulsifies  
**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):** 0.987 [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

**Pour Point:** < 20°C (68°F) [test method unavailable]  
**DMSO Extract (mineral oil only), IP-346:** < 3 %wt

#### 9.2.1. INFORMATION WITH REGARD TO PHYSICAL HAZARD CLASSES

Product Name: MOBILCUT 230  
 Revision Date: 01 Dec 2022  
 Revision Number: 5.00  
 Page 10 of 16

No data available

### 9.2.2. OTHER SAFETY CHARACTERISTICS

No data available

<b>SECTION 10</b>	<b>STABILITY AND REACTIVITY</b>
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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.

<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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### 11.1. INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008

<b>Hazard Class</b>	<b>Conclusion / Remarks</b>
<b>Inhalation</b>	
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.
<b>Ingestion</b>	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
<b>Skin</b>	
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.	Mildly irritating to skin with prolonged exposure. Based on assessment of the components.
<b>Eye</b>	
Serious Eye Damage/Irritation: No end point data for material.	May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.
<b>Sensitisation</b>	
Respiratory Sensitization: No end point data for material.	Not expected to be a respiratory sensitizer.
Skin Sensitization: No end point data for material.	Not expected to be a skin sensitizer. Based on assessment of the components.
<b>Aspiration:</b> Data available.	Not expected to be an aspiration hazard. Based on physico-chemical properties of the material.
<b>Germ Cell Mutagenicity:</b> No end point data for material.	Not expected to be a germ cell mutagen. Based on assessment of the components.
<b>Carcinogenicity:</b> No end point data for	Not expected to cause cancer. Based on assessment of the

Product Name: MOBILCUT 230  
 Revision Date: 01 Dec 2022  
 Revision Number: 5.00  
 Page 11 of 16

material.	components.
<b>Reproductive Toxicity:</b> No end point data for material.	Caused damage to fertility in laboratory animals, but the relevance to humans is uncertain. Caused damage to the fetus in laboratory animals, but the relevance to humans is uncertain. Based on assessment of the components.
<b>Lactation:</b> No end point data for material.	Not expected to cause harm to breast-fed children.
<b>Specific Target Organ Toxicity (STOT)</b>	
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
3-iodo-2-propynyl butylcarbamate	Inhalation Lethality: 4 hour(s) LC50 0.68 mg/l (Aerosol) (Rat); Oral Lethality: LD 50 1056 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:

Component concentrations in this formulation would not be expected to cause skin sensitization, based on tests of the components, this formulation, or similar formulations.

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:

Boric acid: High doses have demonstrated effects on fertility, testes, and developmental effects on the fetus in laboratory animals. Relevance of these findings to humans is uncertain. 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. 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.

<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
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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.

Product Name: MOBILCUT 230  
Revision Date: 01 Dec 2022  
Revision Number: 5.00  
Page 12 of 16

---

## 12.2. PERSISTENCE AND DEGRADABILITY

### Biodegradation:

Base oil component -- Expected to be inherently biodegradable

## 12.3. BIOACCUMULATIVE POTENTIAL

Components -- Has the potential to bioaccumulate.

## 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.

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

<b>SECTION 14</b>	<b>TRANSPORT INFORMATION</b>
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**LAND (ADR/RID):** 14.1-14.6 Not Regulated for Land Transport

Product Name: MOBILCUT 230  
Revision Date: 01 Dec 2022  
Revision Number: 5.00  
Page 13 of 16

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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

<b>SECTION 15</b>	<b>REGULATORY INFORMATION</b>
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#### **REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS**

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

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

Contains Boric Acid at >0.1 percent by weight. Boric Acid is on the Candidate List of Substances of Very High Concern.

##### **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: 30

#### **15.2. CHEMICAL SAFETY ASSESSMENT**

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

<b>SECTION 16</b>	<b>OTHER INFORMATION</b>
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**REFERENCES:** Sources of information used in preparing this SDS included one or more of the following: results

Product Name: MOBILCUT 230

Revision Date: 01 Dec 2022

Revision Number: 5.00

Page 14 of 16

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
Repr. 1B; H360D	Calculation
Repr. 1B; H360F	Calculation

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

Acute Tox. 4 H302: Harmful if swallowed; Acute Tox Oral, Cat 4

Asp. Tox. 1 H304: May be fatal if swallowed and enters airways; Aspiration, Cat 1

Skin Irrit. 2 H315: Causes skin irritation; Skin Corr/Irritation, Cat 2

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. 3 H331: Toxic if inhaled; Acute Tox Inh, Cat 3

Repr. 1B H360D: May damage the unborn child; Repro Tox, Cat 1B (Develop)

Repr. 1B H360F: May damage fertility; Repro Tox, Cat 1B (Fertility)

STOT RE 1 H372: Causes damage to organs through prolonged or repeated exposure; Target Organ, Repeated, Cat 1

Product Name: MOBILCUT 230

Revision Date: 01 Dec 2022

Revision Number: 5.00

Page 15 of 16

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Aquatic Acute 1 H400: Very toxic to aquatic life; Acute Env Tox, Cat 1  
[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 2 H411: Toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 2  
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:**

Annex not required information was added.  
Belgian Poison Center contact number information was added.  
CLP Classification information was modified.  
Composition: Component Table for REACH information was modified.  
Composition: Concentration Footnote information was added.  
dnel table - consumer information was modified.  
dnel table - worker information was modified.  
GHS Health Hazards information was added.  
GHS Precautionary Statements - Prevention information was modified.  
GHS Precautionary Statements - Response information was added.  
GHS Precautionary Statements - Storage information was added.  
GHS Signal Word information was modified.  
GHS Symbol information was modified.  
Hazard Identification: Health Hazards information was modified.  
PNEC table information was modified.  
Section 02: GHS (REACH Registration Name) Contains for LABEL\_GHS codes information was added.  
Section 04: First Aid Ingestion information was modified.  
Section 04: First Aid Inhalation information was modified.  
Section 07: Handling and Storage - Handling information was modified.  
Section 08: Exposure Limits Table information was modified.  
Section 08: Eye Protection information was modified.  
Section 08: Hand Protection 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 11: Reproductive Conclusion information was modified.  
Section 12 EU Annex II Endocrine Disruptor Data information was added.  
Section 13: European Waste Code Hazardous Note information was modified.  
Section 15: REACH Annex XVII data information was modified.  
Section 16: Classification CLP/GHS Table information was modified.  
Section 16: HCode Key information was modified.  
Section 2 EU Annex II Endocrine Disruptor Data information was added.  
Section 9 melting and freezing points information was added.

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Product Name: MOBILCUT 230

Revision Date: 01 Dec 2022

Revision Number: 5.00

Page 16 of 16

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

PPEC: A

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<b>ANNEX</b>
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Annex not required for this material.