

**Orfom® MCX Flotation Oil**

Version 2.1

Revision Date 2020-06-23

according to GB/T 16483 and GB/T 17519

SECTION 1: Identification of the substance/mixture and of the company/undertaking**Product information**

Product Name : Orfom® MCX Flotation Oil
Material : 1121555, 1118476, 1118475, 1117264, 1110866, 1016872

Company : Chevron Phillips Chemical Company LP
Specialty Chemicals
10001 Six Pines Drive
The Woodlands, TX 77380

Emergency telephone:**Health:**

866.442.9628 (North America)

1.832.813.4984 (International)

Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Mexico CHEMTREC 01-800-681-9531 (24 hours)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Argentina: +(54)-1159839431

Responsible Department : Product Safety and Toxicology Group
E-mail address : SDS@CPChem.com
Website : www.CPChem.com

SECTION 2: Hazards identification**Classification of the substance or mixture**

GHS Classification and Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29 (GHS 2011)

Emergency Overview**Danger**

Form: Liquid **Physical state:** Liquid **Color:** Colorless **Odor:** Mild

Hazards : Combustible liquid. May be fatal if swallowed and enters airways.

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Classification

: Flammable liquids, Category 4
Aspiration hazard, Category 1

Labeling

Symbol(s)



Signal Word

: Danger

Hazard Statements

: H227: Combustible liquid.
H304: May be fatal if swallowed and enters airways.

Precautionary Statements

: **Prevention:**
P210: Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P280: Wear protective gloves/ eye protection/ face protection.
Response:
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331: Do NOT induce vomiting.
P370+P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Storage:
P403 + P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.
Disposal:
P501: Dispose of contents/ container to an approved waste disposal plant.

SECTION 3: Composition/information on ingredients

Synonyms : Flotation Oil

Molecular formula : UVCB

| Chemical name | CAS-No. / EINECS-No. | Concentration [wt%] |
|----------------------------------|----------------------|---------------------|
| C13-C16 Isoalkanes | 68551-20-2 | 0 - 100 |
| C12-C14 Isoalkanes | 68551-19-9 | 0 - 100 |
| Distillate (Petroleum), Alkylate | 64741-73-7 | 0 - 100 |

SECTION 4: First aid measures

General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

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- | | | |
|-------------------------|---|---|
| If inhaled | : | If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. |
| In case of skin contact | : | If on skin, rinse well with water. If on clothes, remove clothes. |
| In case of eye contact | : | Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. |
| If swallowed | : | Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital. |

SECTION 5: Firefighting measures

- | | | |
|--|---|---|
| Flash point | : | 79°C (174°F) Method: ASTM D 93 |
| Autoignition temperature | : | No data available |
| Suitable extinguishing media | : | Carbon dioxide (CO ₂). |
| Unsuitable extinguishing media | : | High volume water jet. |
| Special protective equipment for fire-fighters | : | Wear self-contained breathing apparatus for firefighting if necessary. |
| Further information | : | For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers. |
| Fire and explosion protection | : | Do not spray on an open flame or any other incandescent material. Keep away from open flames, hot surfaces and sources of ignition. |
| Hazardous decomposition products | : | Carbon oxides. |

SECTION 6: Accidental release measures

- | | | |
|---------------------------|---|---|
| Personal precautions | : | Use personal protective equipment. Ensure adequate ventilation. |
| Environmental precautions | : | Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods for cleaning up | : | Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. |

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SECTION 7: Handling and storage**Handling**

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Do not spray on an open flame or any other incandescent material. Keep away from open flames, hot surfaces and sources of ignition.

Storage

Requirements for storage areas and containers : No smoking. Keep in a well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection**Ingredients with workplace control parameters****Chevron Phillips Chemical Company LP**

| Components | Basis | Value | Control parameters | Note |
|--------------------|--------------|-------|--------------------|------|
| C12-C14 Isoalkanes | Manufacturer | TWA | 1,200 mg/m3 | RCP, |

RCP Reciprocal Calculation Procedure

CN

| Components | Basis | Value | Control parameters | Note |
|------------|-------|-------|--------------------|------|
|------------|-------|-------|--------------------|------|

Not applicable

Engineering measures

Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

Respiratory protection : Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

Hand protection : The suitability for a specific workplace should be discussed

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with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

- Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant protective clothing. Footwear protecting against chemicals.
- Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties****Appearance**

- Form : Liquid
- Physical state : Liquid
- Color : Colorless
- Odor : Mild

Safety data

- Flash point : 79°C (174°F)
Method: ASTM D 93
- Lower explosion limit : No data available
- Upper explosion limit : No data available
- Oxidizing properties : No
- Autoignition temperature : No data available
- Molecular formula : UVCB
- Molecular weight : Not applicable
- pH : 7
- Pour point : No data available
- Boiling point/boiling range : 214.4-316°C (417.9-601°F)
- Vapor pressure : 0.36 MMHG
at 37.8°C (100.0°F)
- Relative density : 0.79
at 15.6 °C (60.1 °F)
- Density : 794.5 g/l

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| | |
|--|------------------------------|
| Water solubility | : Negligible |
| Partition coefficient: n-octanol/water | : No data available |
| Viscosity, kinematic | : 3.3 cSt at 38°C (100°F) |
| Relative vapor density | : 1 (Air = 1.0) |
| Evaporation rate | : < 1 |

SECTION 10: Stability and reactivity

| | |
|---|---|
| Reactivity | : Stable under recommended storage conditions. |
| Chemical stability | : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. |
| Possibility of hazardous reactions | |
| Hazardous reactions | : Hazardous reactions: Hazardous polymerization does not occur. Further information: No decomposition if stored and applied as directed. Hazardous reactions: Vapors may form explosive mixture with air. |
| Conditions to avoid | : Heat, flames and sparks. |
| Materials to avoid | : May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc. |
| Hazardous decomposition products | : Carbon oxides |
| Other data | : No decomposition if stored and applied as directed. |

SECTION 11: Toxicological information

| | |
|---------------------------------|--|
| Orfom® MCX Flotation Oil | |
| Acute oral toxicity | : Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method Information given is based on data obtained from similar substances. |
| Orfom® MCX Flotation Oil | |

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- Acute inhalation toxicity** : Acute toxicity estimate: > 5.3 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method
Information given is based on data obtained from similar substances.
- Orfom® MCX Flotation Oil**
Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method
Information given is based on data obtained from similar substances.
- Orfom® MCX Flotation Oil**
Skin irritation : Repeated exposure may cause skin dryness or cracking.
May irritate skin. largely based on animal evidence.
Information given is based on data obtained from similar substances.
- Orfom® MCX Flotation Oil**
Eye irritation : No eye irritation
largely based on animal evidence. Information given is based on data obtained from similar substances.
- Orfom® MCX Flotation Oil**
Sensitization : Did not cause sensitization on laboratory animals.
Information given is based on data obtained from similar substances.
- Repeated dose toxicity**
- C13-C16 Isoalkanes** : Species: Rat, male and female
Sex: male and female
Application Route: oral gavage
Exposure time: 13 wk
Number of exposures: 7 d/wk
NOEL: > 5,000 mg/kg
Method: OECD Test Guideline 408
No significant adverse effects were reported
Information given is based on data obtained from similar substances.

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Species: Rat, male and female
 Sex: male and female
 Application Route: Inhalation
 Exposure time: 13 wk
 Number of exposures: 6 h/d
 NOEL: 30 mg/l
 Method: OECD Test Guideline 413
 No significant adverse effects were reported
 Information given is based on data obtained from similar substances.

Species: Rat, male and female
 Sex: male and female
 Application Route: Dermal
 Exposure time: 13 wk
 Number of exposures: 5 d/wk
 NOEL: > 495 mg/kg
 Method: OECD Test Guideline 411
 No significant adverse effects were reported
 Information given is based on data obtained from similar substances.

C12-C14 Isoalkanes

Species: Rat, male and female
 Sex: male and female
 Application Route: oral gavage
 Dose: 500, 2500, 5000 mg/kg/d
 Exposure time: 13 wk
 Number of exposures: daily
 NOEL: \geq 5000 mg/kg/d
 Method: OECD Test Guideline 408
 No adverse effects expected
 Information given is based on data obtained from similar substances.

Species: Rat, male and female
 Sex: male and female
 Application Route: Dermal
 Dose: 165, 330, 495 mg/kg
 Exposure time: 13 wk
 Number of exposures: 5 d/wk
 NOEL: > 495 mg/kg/d
 Method: OECD Guideline 411
 No adverse effects expected
 Information given is based on data obtained from similar substances.

Species: Rat, male and female
 Sex: male and female
 Application Route: Inhalation
 Dose: 5, 10, 30 mg/L
 Exposure time: 90 d
 Number of exposures: 6 h/d
 NOEL: > 30 mg/l
 Method: OECD Test Guideline 413
 No adverse effects expected
 Information given is based on data obtained from similar substances.

Distillate (Petroleum),
Alkylate

Species: Rat, male and female
 Sex: male and female

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Application Route: oral gavage
 Exposure time: 13 wk
 Number of exposures: 7 d/wk
 NOEL: > 5,000 mg/kg
 Method: OECD Test Guideline 408
 No significant adverse effects were reported
 Information given is based on data obtained from similar substances.

Species: Rat, male and female
 Sex: male and female
 Application Route: Inhalation
 NOEL: 30 mg/l
 Method: OECD Test Guideline 413
 No significant adverse effects were reported
 Information given is based on data obtained from similar substances.

Genotoxicity in vitro

C13-C16 Isoalkanes

: Test Type: Reverse mutation assay
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: negative
 Remarks: Information given is based on data obtained from similar substances.

Test Type: Cytogenetic assay
 Test system: Chinese hamster cells
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 473
 Result: negative
 Remarks: Information given is based on data obtained from similar substances.

Test Type: Mouse lymphoma assay
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 476
 Result: negative
 Remarks: Information given is based on data obtained from similar substances.

C12-C14 Isoalkanes

Test Type: Ames test
 Metabolic activation: with and without metabolic activation
 Result: negative

Test Type: Mouse lymphoma assay
 Metabolic activation: with and without metabolic activation
 Result: negative

Test Type: Sister Chromatid Exchange Assay
 Metabolic activation: with and without metabolic activation
 Result: negative

Reproductive toxicity

C13-C16 Isoalkanes

: Species: Rat
 Sex: male and female
 Application Route: oral gavage

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Dose: 50, 100, 750 mg/kd/d
 Exposure time: 70 d
 Number of exposures: Daily
 Method: OECD Test Guideline 416
 NOAEL Parent: \geq 750 mg/kg
 NOAEL F1: \geq 750 mg/kg
 No adverse effects expected
 Information given is based on data obtained from similar substances.

C12-C14 Isoalkanes

Species: Rat
 Sex: male and female
 Application Route: oral gavage
 Dose: 50, 200, 750 mg/kg/bw/d
 Number of exposures: daily
 Test period: 70 d
 Method: OECD Test Guideline 416
 NOAEL Parent: >750 mg/kg/bw/d
 NOAEL F1: >750 mg/kg/bw/d
 No adverse effects expected
 Information given is based on data obtained from similar substances.

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Aspiration toxicity**

: May be fatal if swallowed and enters airways.

CMR effects

C13-C16 Isoalkanes

: Carcinogenicity: Not available
 Mutagenicity: In vitro tests did not show mutagenic effects
 Reproductive toxicity: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

C12-C14 Isoalkanes

Carcinogenicity: Not available
 Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects., In vivo tests did not show mutagenic effects
 Teratogenicity: Animal testing did not show any effects on fetal development.
 Reproductive toxicity: Animal testing did not show any effects on fertility.

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Further information**

: Solvents may degrease the skin.

SECTION 12: Ecological information**Ecotoxicity effects
Toxicity to fish**

C13-C16 Isoalkanes

: LL50: $> 1,000$ mg/l
 Exposure time: 96 h
 Species: *Oncorhynchus mykiss* (rainbow trout)
 static test Method: OECD Test Guideline 203
 Information given is based on data obtained from similar

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substances.

C12-C14 Isoalkanes
 LL50: > 1,000 mg/l
 Exposure time: 96 h
 Species: Oncorhynchus mykiss (rainbow trout)
 semi-static test Method: OECD Test Guideline 203
 Information given is based on data obtained from similar substances.

Distillate (Petroleum),
 Alkylate
 LL50: > 1,000 mg/l
 Exposure time: 96 h
 Species: Oncorhynchus mykiss (rainbow trout)
 static test Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates

C13-C16 Isoalkanes : EL50: > 1,000 mg/l
 Exposure time: 48 h
 Species: Daphnia magna (Water flea)
 Immobilization Method: OECD Test Guideline 202
 Information given is based on data obtained from similar substances.

C12-C14 Isoalkanes
 LL50: > 3,000 mg/l
 Exposure time: 48 h
 Species: Acartia tonsa (Marine Copepod)
 static test Method: ISO 14669 and PARCOM method
 Information given is based on data obtained from similar substances.

Distillate (Petroleum),
 Alkylate
 EL50: > 1,000 mg/l
 Exposure time: 48 h
 Species: Daphnia magna Straus (Water flea)
 Immobilization Method: OECD Test Guideline 202
 Information given is based on data obtained from similar substances.

Toxicity to algae

C13-C16 Isoalkanes : EL50: > 1,000 mg/l
 Exposure time: 72 h
 Species: Pseudokirchneriella subcapitata (green algae)
 Growth inhibition Method: OECD Test Guideline 201
 Information given is based on data obtained from similar substances.

C12-C14 Isoalkanes
 EL50: > 1,000 mg/l
 Exposure time: 72 h
 Species: Pseudokirchneriella subcapitata (green algae)
 Growth inhibition Method: OECD Test Guideline 201
 Information given is based on data obtained from similar substances.

Distillate (Petroleum),
 Alkylate
 EL50: > 1,000 mg/l
 Exposure time: 72 h
 Species: Pseudokirchneriella subcapitata (algae)
 Growth inhibition Method: OECD Test Guideline 201

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Toxicity to bacteria

C13-C16 Isoalkanes : > 100 mg/l
 Exposure time: 3 h
 Respiration inhibition
 Method: OECD Test Guideline 209
 Information given is based on data obtained from similar substances.

Toxicity to fish (Chronic toxicity)

C12-C14 Isoalkanes : No data available:

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

C12-C14 Isoalkanes : No data available

Biodegradability

C13-C16 Isoalkanes : aerobic
 Result: Readily biodegradable.
 74 %
 Testing period: 28 d
 Method: OECD Test Guideline 306
 Information given is based on data obtained from similar substances.

C12-C14 Isoalkanes : aerobic
 31.3 %
 Testing period: 28 d
 Method: OECD Test Guideline 301
 Information given is based on data obtained from similar substances.
 Expected to be inherently biodegradable.

Distillate (Petroleum),
 Alkylate : aerobic
 Result: Readily biodegradable.
 74 %
 Testing period: 28 d
 Method: OECD Test Guideline 306
 Information given is based on data obtained from similar substances.

Elimination information (persistence and degradability)

Bioaccumulation : The product may be accumulated in organisms.

Mobility : immobile

Results of PBT assessment

C13-C16 Isoalkanes : Non-classified PBT substance, Non-classified vPvB substance

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C12-C14 Isoalkanes : Non-classified PBT substance, Non-classified vPvB substance

Additional ecological information : This material is not expected to be harmful to aquatic organisms.

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : This material is not expected to be harmful to aquatic organisms.

Long-term (chronic) aquatic hazard : This material is not expected to be harmful to aquatic organisms.

SECTION 13: Disposal considerations

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product : Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

UN3295, HYDROCARBONS, LIQUID, N.O.S., COMBUSTIBLE LIQUID, III

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information**Notification status**

| | | |
|-------------------------------------|---|---|
| Europe REACH | : | Not in compliance with the inventory |
| Switzerland CH INV | : | On the inventory, or in compliance with the inventory |
| United States of America (USA) TSCA | : | All substances listed as active on the TSCA inventory |
| Canada DSL | : | All components of this product are on the Canadian DSL |
| Australia AICS | : | On the inventory, or in compliance with the inventory |
| New Zealand NZIoC | : | This substance may be used as a component in a product covered by a group standard but it is not approved for use as a chemical in its own right |
| Japan ENCS | : | On the inventory, or in compliance with the inventory |
| Korea KECI | : | A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance. |
| Philippines PICCS | : | Not in compliance with the inventory |
| China IECSC | : | On the inventory, or in compliance with the inventory |
| Taiwan TCSI | : | On the inventory, or in compliance with the inventory |
| Other regulations | : | Law on the Prevention and Control of Occupational Diseases |

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SECTION 16: Other information**Further information**

Legacy SDS Number : 250860

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Key or legend to abbreviations and acronyms used in the safety data sheet

| | | | |
|--------|--|-------|--|
| ACGIH | American Conference of Government Industrial Hygienists | LD50 | Lethal Dose 50% |
| AICS | Australia, Inventory of Chemical Substances | LOAEL | Lowest Observed Adverse Effect Level |
| DSL | Canada, Domestic Substances List | NFPA | National Fire Protection Agency |
| NDSL | Canada, Non-Domestic Substances List | NIOSH | National Institute for Occupational Safety & Health |
| CNS | Central Nervous System | NTP | National Toxicology Program |
| CAS | Chemical Abstract Service | NZIoC | New Zealand Inventory of Chemicals |
| EC50 | Effective Concentration | NOAEL | No Observable Adverse Effect Level |
| EC50 | Effective Concentration 50% | NOEC | No Observed Effect Concentration |
| EGEST | EOSCA Generic Exposure Scenario Tool | OSHA | Occupational Safety & Health Administration |
| EOSCA | European Oilfield Specialty Chemicals Association | PEL | Permissible Exposure Limit |
| EINECS | European Inventory of Existing Chemical Substances | PICCS | Philippines Inventory of Commercial Chemical Substances |
| MAK | Germany Maximum Concentration Values | PRNT | Presumed Not Toxic |
| GHS | Globally Harmonized System | RCRA | Resource Conservation Recovery Act |
| >= | Greater Than or Equal To | STEL | Short-term Exposure Limit |
| IC50 | Inhibition Concentration 50% | SARA | Superfund Amendments and Reauthorization Act. |
| IARC | International Agency for Research on Cancer | TLV | Threshold Limit Value |
| IECSC | Inventory of Existing Chemical Substances in China | TWA | Time Weighted Average |
| ENCS | Japan, Inventory of Existing and New Chemical Substances | TSCA | Toxic Substance Control Act |
| KECI | Korea, Existing Chemical Inventory | UVCB | Unknown or Variable Composition, Complex Reaction Products, and Biological Materials |
| <= | Less Than or Equal To | WHMIS | Workplace Hazardous Materials Information System |
| LC50 | Lethal Concentration 50% | | |