SAFETY DATA SHEET

N-Octyl Mercaptan

Version 1.22

Revision Date 2019-10-09

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: N-Octyl Mercaptan
Material: 1115893, 1086427, 1092079, 1089361, 1086426, 1021507, 1021501, 1021505, 1021503, 1021502, 1021508, 1021506, 1021504, 1024813, 1026777, 1036311, 1021509, 1035162, 1024812, 1033723

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

Local: Chevron Phillips Chemicals (Shanghai) Corporation
Room 1810-1812, Shanghai Mart,
2299 Yan An Road (W),
Shanghai, PRC 200336

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)-(11)59839431

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)

SDS Number:100000013889 1/14
# Emergency Overview

## Warning

**Form:** Liquid  
**Physical state:** Liquid  
**Color:** Colorless  
**Odor:** Pungent  
**Hazard Statements:** Combustible liquid. May be harmful if swallowed. Causes serious eye irritation. May cause an allergic skin reaction. May cause damage to organs. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be harmful if swallowed and enters airways. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

## Classification

- Flammable liquids, Category 4  
- Acute toxicity, Category 5, Oral  
- Serious eye damage/eye irritation, Category 2A  
- Skin sensitization, Category 1  
- Specific target organ toxicity - single exposure, Category 2  
- Specific target organ toxicity - single exposure, Category 3, Narcotic effects  
- Specific target organ toxicity - repeated exposure, Category 2  
- Aspiration hazard, Category 2  
- Short-term (acute) aquatic hazard, Category 1  
- Long-term (chronic) aquatic hazard, Category 1

## Labeling

**Symbol(s):**  
- Warning

**Signal Word:** Warning  
**Hazard Statements:**  
- H227: Combustible liquid.  
- H303: May be harmful if swallowed.  
- H305: May be harmful if swallowed and enters airways.  
- H317: May cause an allergic skin reaction.  
- H319: Causes serious eye irritation.  
- H336: May cause drowsiness or dizziness.  
- H371: May cause damage to organs.  
- H373: May cause damage to organs through prolonged or repeated exposure.  
- H410: Very toxic to aquatic life with long lasting effects.

**Precautionary Statements:**  
- **Prevention:**  
  - P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
  - P260: Do not breathe dust/fume/gas/mist/vapor/spray.  
  - P264: Wash skin thoroughly after handling.  
  - P270: Do not eat, drink or smoke when using this product.  
  - P271: Use only outdoors or in a well-ventilated area.  
  - P272: Contaminated work clothing should not be allowed out of the workplace.  
  - P273: Avoid release to the environment.  
  - P280: Wear protective gloves/eye protection/face protection.
**Response:**
P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302 + P352: IF ON SKIN: Wash with plenty of water.
P304 + P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P311: IF exposed or concerned: Call a POISON CENTER/doctor.
P331: Do NOT induce vomiting.
P333 + P313: IF skin irritation or rash 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.
P370 + P378: IN case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391: Collect spillage.

**Storage:**
P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
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.

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**SECTION 3: Composition/information on ingredients**

<table>
<thead>
<tr>
<th>Synonyms</th>
<th>Molecular formula</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Octanethiol</td>
<td>C8H18S</td>
</tr>
<tr>
<td>normal-Octyl mercaptan</td>
<td></td>
</tr>
<tr>
<td>NOM</td>
<td></td>
</tr>
<tr>
<td>NC8SH</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No. / EINECS-No.</th>
<th>Concentration [wt%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Octyl Mercaptan</td>
<td>111-88-6</td>
<td>98.5 - 100</td>
</tr>
</tbody>
</table>

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**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.

**If inhaled:** If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
N-Octyl Mercaptan

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. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a specialist. Take victim immediately to hospital.

SECTION 5: Firefighting measures

Flash point: 69 - 71 °C (156 - 160 °F) at 101.325 kPa Method: EU Method A.9

Autoignition temperature: No data available

Suitable extinguishing media: Carbon dioxide (CO2).

Unsuitable extinguishing media: High volume water jet.

Specific hazards during fire fighting: Do not allow run-off from fire fighting to enter drains or water courses.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. 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. Sulfur 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.

SECTION 7: Handling and storage

Handling
Advice on safe handling: Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. 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. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

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. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection

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:. Air-Purifying Respirator for Organic Vapors. 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
### Hand protection
The suitability for a specific workplace should be discussed 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. Remove and wash contaminated clothing before re-use. Skin should be washed after contact. 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
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</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Physical state</td>
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<tr>
<td>Color</td>
<td>Colorless</td>
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<tr>
<td>Odor</td>
<td>Pungent</td>
</tr>
<tr>
<td><strong>Safety data</strong></td>
<td></td>
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<tr>
<td>Flash point</td>
<td>69 - 71 °C (156 - 160 °F) at 101.325 kPa</td>
</tr>
<tr>
<td>Method</td>
<td>EU Method A.9</td>
</tr>
<tr>
<td>Lower explosion limit</td>
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<tr>
<td>Upper explosion limit</td>
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<td>Oxidizing properties</td>
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<td>Boiling point/boiling range</td>
<td>199 °C (390 °F)</td>
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<tr>
<td>Vapor pressure</td>
<td>0.02 PSI</td>
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</tbody>
</table>

SDS Number: 100000013889
N-Octyl Mercaptan

Section 7: Physical properties

Relative density: 0.85
   at 37.8 °C (100.0 °F)
   at 16 °C (61 °F)

Water solubility: Negligible

Partition coefficient: n-octanol/water: No data available

Viscosity, kinematic: 1.04 mm²/s
   at 40 °C (104 °F)

Relative vapor density: 1
   (Air = 1.0)

Evaporation rate: No data available

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 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
   Sulfur oxides

Other data: No decomposition if stored and applied as directed.
### Acute oral toxicity
n-Octyl Mercaptan: LD50: 2,436 mg/kg
Species: Rat
Sex: male and female
Method: Fixed Dose Method

### Acute inhalation toxicity
n-Octyl Mercaptan: LC50: > 0.24 mg/l
Exposure time: 4 h
Species: Rat
Sex: male and female
Test atmosphere: vapor
Method: OECD Test Guideline 403
An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

### Acute dermal toxicity
n-Octyl Mercaptan: LD50: > 1,680 mg/kg
Species: Rat
Sex: male and female
Method: OECD Test Guideline 402

### Skin irritation
n-Octyl Mercaptan: slight irritation. largely based on animal evidence.

### Eye irritation
n-Octyl Mercaptan: slight irritation. largely based on animal evidence.

### Sensitization
n-Octyl Mercaptan: May cause sensitization by skin contact. largely based on animal evidence.

### Repeated dose toxicity
n-Octyl Mercaptan: Species: Rat, males
Sex: males
Application Route: Oral
Dose: 0, 10, 50, 250 mg/kg
Exposure time: 35 D
Number of exposures: once daily
NOEL: 50 mg/kg
Method: OECD Guideline 422

n-Octyl Mercaptan: Species: Rat, females
Sex: females
Application Route: Oral
Dose: 0, 10, 50, 250 mg/kg
Number of exposures: once daily
NOEL: 50 mg/kg
Method: OECD Guideline 422

### Genotoxicity in vitro
n-Octyl Mercaptan

Genotoxicity in vivo
n-Octyl Mercaptan

Reproductive Toxicity
n-Octyl Mercaptan

Developmental Toxicity
n-Octyl Mercaptan

Aspiration toxicity
n-Octyl Mercaptan

CMR effects
n-Octyl Mercaptan

SAFETY DATA SHEET

N-Octyl Mercaptan

Version 1.22

Revision Date 2019-10-09

n-Octyl Mercaptan: Test Type: Reverse mutation assay
Metabolic activation: with and without metabolic activation
Method: Mutagenicity (Escherichia coli - reverse mutation assay)
Result: negative

Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Result: negative

Test Type: Sister chromatid exchange
Metabolic activation: with and without metabolic activation
Result: negative

Genotoxicity in vivo

n-Octyl Mercaptan: Test Type: Micronucleus test
Species: Mouse
Method: Mutagenicity (micronucleus test)
Result: negative

Reproductive Toxicity

n-Octyl Mercaptan: Species: Rat
Sex: male
Application Route: Oral diet
Dose: 0, 10, 50, 250 mg/kg
Exposure time: 35 D
Number of exposures: once daily
Method: OECD Guideline 422
NOAEL Parent: 250 mg/kg
NOAEL F1: 250 mg/kg

Species: Rat
Sex: female
Application Route: Oral diet
Dose: 0, 10, 50, 250 mg/kg
Number of exposures: once daily
Method: OECD Guideline 422
NOAEL Parent: 50 mg/kg
NOAEL F1: 250 mg/kg

Developmental Toxicity

n-Octyl Mercaptan: Species: Rat
Application Route: Oral diet
Dose: 0, 10, 50, 250 mg/kg
Number of exposures: once daily
NOAEL Teratogenicity: 250 mg/kg

Aspiration Toxicity

n-Octyl Mercaptan: May be harmful if swallowed and enters airways.

CMR effects

n-Octyl Mercaptan: Mutagenicity: Tests on bacterial or mammalian cell cultures
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.

**N-Octyl Mercaptan**

Further information: Solvents may degrease the skin.

### SECTION 12: Ecological information

**Toxicity to fish**

n-Octyl Mercaptan: LC50: 0.326 mg/l
Exposure time: 96 h
Species: Oryzias latipes (Orange-red killifish)
semi-static test Analytical monitoring: yes
Method: OECD Test Guideline 203
Very toxic to fish.

**Toxicity to daphnia and other aquatic invertebrates**

n-Octyl Mercaptan: 0.0243 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Immobilization Analytical monitoring: yes
Method: OECD Test Guideline 202
Very toxic to aquatic organisms.

**Toxicity to algae**

n-Octyl Mercaptan: 0.039 mg/l
Exposure time: 72 h
Species: Pseudokirchneriella subcapitata (microalgae)
semi-static test Analytical monitoring: yes
Method: OECD Test Guideline 201
Very toxic to algae.

**Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)**

n-Octyl Mercaptan: > 0.00467 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Toxic effects on fish and plankton

**Biodegradability**

n-Octyl Mercaptan: Result: Not readily biodegradable.
0 %
Testing period: 28 Days
Method: OECD Test Guideline 301
Information given is based on data obtained from similar
## N-Octyl Mercaptan

### Bioaccumulation

<table>
<thead>
<tr>
<th>Substance</th>
<th>Bioconcentration factor (BCF)</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Octyl Mercaptan</td>
<td>11.83</td>
<td>QSAR modeled data</td>
</tr>
</tbody>
</table>

### Mobility

<table>
<thead>
<tr>
<th>Substance</th>
<th>Medium</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Octyl Mercaptan</td>
<td>Soil</td>
<td>Calculation, Mackay Level III Fugacity Model</td>
</tr>
<tr>
<td></td>
<td></td>
<td>This product may float or sink in water.</td>
</tr>
<tr>
<td></td>
<td>Water</td>
<td>Calculation, Mackay Level III Fugacity Model</td>
</tr>
<tr>
<td></td>
<td></td>
<td>This product may float or sink in water.</td>
</tr>
</tbody>
</table>

### Additional ecological information

**Ecotoxicology Assessment**

- **Short-term (acute) aquatic hazard**
  - n-Octyl Mercaptan: Very toxic to aquatic life.

- **Long-term (chronic) aquatic hazard**
  - n-Octyl Mercaptan: Very toxic to aquatic life with long lasting effects.

### 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**: The product should not be allowed to enter drains, water courses or the soil. 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 information.
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)
NA1993, COMBUSTIBLE LIQUID, N.O.S., (N-OCTYL MERCAPTAN), III

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)
UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-OCTYL MERCAPTAN), 9, III, (69 - 71 °C), MARINE POLLUTANT, (N-OCTYL MERCAPTAN)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)
UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-OCTYL MERCAPTAN), 9, III

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))
UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-OCTYL MERCAPTAN), 9, III

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))
UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-OCTYL MERCAPTAN), 9, III

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)
UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-OCTYL MERCAPTAN), 9, III

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

<table>
<thead>
<tr>
<th>Notification status</th>
<th>Other information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe REACH</td>
<td>n-Octyl Mercaptan, S.T. 1, Cat. X</td>
</tr>
<tr>
<td>Switzerland CH INV</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>United States of America (USA) TSCA</td>
<td>On or in compliance with the active portion of the TSCA inventory</td>
</tr>
<tr>
<td>Canada DSL</td>
<td>All components of this product are on the Canadian DSL</td>
</tr>
<tr>
<td>Australia AICS</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>New Zealand NZIoC</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>Japan ENCS</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>Korea KECI</td>
<td>All substances in this product were registered, notified</td>
</tr>
</tbody>
</table>
to be registered, or exempted from registration by CPChem through an Only Representative according to K-REACH regulations. Importation of this product is permitted if the Korean Importer of Record was included on CPChem’s notifications or if the Importer of Record themselves notified the substances.

Philippines PICCS : On the inventory, or 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

SECTION 16: Other information

Further information
Legacy SDS Number : 76100

Local emergency contact number: 0532-83889090

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

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Government Industrial Hygienists</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal Dose 50%</td>
</tr>
<tr>
<td>AIICSC</td>
<td>Australia, Inventory of Chemical Substances</td>
</tr>
<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>DSL</td>
<td>Canada, Domestic Substances List</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Agency</td>
</tr>
<tr>
<td>NDSL</td>
<td>Canada, Non-Domestic Substances List</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety &amp; Health</td>
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<tr>
<td>CNS</td>
<td>Central Nervous System</td>
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<td>NTP</td>
<td>National Toxicology Program</td>
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<td>CAS</td>
<td>Chemical Abstract Service</td>
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<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
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<td>EC50</td>
<td>Effective Concentration</td>
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<td>NOAEL</td>
<td>No Observable Adverse Effect Level</td>
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<td>Effective Concentration 50%</td>
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<td>No Observed Effect Concentration</td>
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<td>EGEST</td>
<td>EOSCA Generic Exposure Scenario Tool</td>
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<td>EOSCA</td>
<td>European Oilfield Specialty Chemicals Association</td>
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<tr>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
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<tr>
<td>EINECS</td>
<td>European Inventory of Existing Chemical Substances</td>
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<tr>
<td>PICCS</td>
<td>Philippines Inventory of Commercial Chemical Substances</td>
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<tr>
<td>MAK</td>
<td>Germany Maximum Concentration Values</td>
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<tr>
<td>PRNT</td>
<td>Presumed Not Toxic</td>
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<tr>
<td>GHS</td>
<td>Globally Harmonized System</td>
</tr>
<tr>
<td>RCRA</td>
<td>Resource Conservation Recovery Act</td>
</tr>
<tr>
<td>&gt;=</td>
<td>Greater Than or Equal To</td>
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<tr>
<td>STEL</td>
<td>Short-term Exposure Limit</td>
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<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
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<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
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<tr>
<td>IECSC</td>
<td>Inventory of Existing Chemical</td>
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<tr>
<td>TWA</td>
<td>Time Weighted Average</td>
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SDS Number: 100000013889 13/14
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<tr>
<th>Substances in China</th>
<th>TSCA</th>
<th>Toxic Substance Control Act</th>
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<tr>
<td>ENCS</td>
<td>Japan, Inventory of Existing and New Chemical Substances</td>
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<td>KECI</td>
<td>Korea, Existing Chemical Inventory</td>
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<tr>
<td>LC50</td>
<td>Lethal Concentration 50%</td>
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<td></td>
<td>UVCB</td>
<td>Unknown or Variable Composition, Complex Reaction Products, and Biological Materials</td>
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<td>WHMIS</td>
<td>Workplace Hazardous Materials Information System</td>
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