

**Methyl-3 Mercaptopropionate**

Version 2.0

Revision Date 2026-01-28

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 : Methyl-3 Mercaptopropionate  
Material : 1131212, 1113892, 1086430, 1093790, 1086431, 1086432, 1086433, 1066661, 1025300, 1024824, 1027475, 1024823  
Use : Chemical intermediate  
Uses advised against : This material should not be used for purposes other than the identified uses in section 1 without expert advice.

**Company** : Chevron Phillips Chemical Company LP  
9500 Lakeside Blvd.  
The Woodlands, TX 77381

**Local** : Chevron Phillips Chemicals (Shanghai) Corporation  
Room 1810-1812, Shanghai Mart,  
2299 Yan An Road (W),  
Shanghai, PRC 200336  
Tel: (86-21) 22157200

**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

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

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

Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)

Belgium: 070 245 245 (24 hours/day, 7 days/week)

Bulgaria: +359 2 9154 233

Croatia: +3851 2348 342 (24 hours/day, 7 days/week)

Cyprus: 1401

Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402

Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212

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

Finland: 0800 147 111 09 471 977 (24 hours/day)

France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)

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

Greece: (0030) 2107793777 (24 hours/day, 7 days/week)

Hungary: +36-80-201-199 (24 hours/day, 7 days/week)

Iceland: 543 2222 (24 hours/day, 7 days/week)

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

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Italy: POISON CENTER MILAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 66101029; POISON CENTER ROME – Policlinico “Agostino Gemelli”, Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME – Ospedale Pediatrico Bambino Gesù Tel. +39 06 68593726; POISON CENTER ROME – Policlinico “Umberto I” Tel. +39 06 4997 8000; POISON CENTER FOGGIA – Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER NAPLES – Azienda Ospedaliera “Antonio Cardarelli” Tel. +39 081 7472870; POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055 7947819; POISON CENTER PAVIA – IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 24444; POISON CENTER BERGAMO – Azienda Ospedaliera “Papa Giovanni XXIII” Tel. 800 883 300; POISON CENTER VERONA – Azienda Ospedaliera Universitaria integrata Tel. 800 011 858;

Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 67042473. (24 hours.)

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

Lithuania: +370 (85) 2362052

Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)

Malta: +356 2395 2000

The Netherlands: NVIC: +31 (0)88 755 8000

Norway: 22 59 13 00 (24 hours/day, 7 days/week)

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

Portugal: CIAV phone number: +351 800 250 250

Romania: +40213183606

Slovakia: +421 2 5477 4166

Slovenia: Phone number: 112

Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week)

Sweden: 112 – ask for Poisons Information

Organization that prepared : Product Safety and Toxicology Group  
the SDS  
E-mail address : SDS@CPChem.com  
Website : www.CPChem.com

**SECTION 2: Hazards identification****Classification of the substance or mixture****GB 30000 Specification for classification and labeling of chemicals****Emergency Overview****Danger**

**Form:** liquid    **Physical state:** liquid    **Color:** Colorless    **Odor:** Repulsive

**Hazards** : Combustible liquid. Toxic if swallowed. Fatal if inhaled. Harmful in contact with skin. Causes eye irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

**Classification**

: Flammable liquids, Category 4  
Acute toxicity, Category 3, Oral  
Acute toxicity, Category 2, Inhalation  
Acute toxicity, Category 4, Dermal  
Serious eye damage/eye irritation, Category 2B  
Short-term (acute) aquatic hazard, Category 1  
Long-term (chronic) aquatic hazard, Category 1

**Labeling**

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Symbol(s)

:



Signal Word

:

Danger

Hazard Statements

:

H227: Combustible liquid.  
 H301: Toxic if swallowed.  
 H312: Harmful in contact with skin.  
 H320: Causes eye irritation.  
 H330: Fatal if inhaled.  
 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 mist or vapors.  
 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.  
 P273: Avoid release to the environment.  
 P280: Wear protective gloves/ eye protection/ face protection.  
 P284: Wear respiratory protection.  
**Response:**  
 P301 + P310 + P330: IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.  
 P302 + P352 + P312: IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell.  
 P304+P340+P310: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.  
 P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 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.

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

Synonyms

:

MMP  
 Methyl beta-Mercaptopropionate  
 Methyl-3 Mercaptopropionate

**Methyl-3 Mercaptopropionate**

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Molecular formula : C<sub>4</sub>H<sub>8</sub>O<sub>2</sub>S

| Chemical name               | CAS-No. / EINECS-No. | Concentration<br>[wt%] |
|-----------------------------|----------------------|------------------------|
| Methyl 3-Mercaptopropionate | 2935-90-2            | 99 - 100               |

**SECTION 4: First aid measures**

- General advice : Move out of dangerous area. Consult a physician. 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 : Call a physician or poison control center immediately. If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Take victim immediately to hospital. If on skin, rinse well with water. If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
- If swallowed : Induce vomiting immediately and call a physician. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

**Notes to physician**

- Symptoms : No data available.
- Risks : No data available.
- Treatment : Treat symptomatically.

**SECTION 5: Firefighting measures**

- Flash point : 67°C (153°F)  
Method: closed cup
- Autoignition temperature : No data available
- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>).
- 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.

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- |                                                |   |                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition.                                                                                                                                                                                                                                        |
| Hazardous decomposition products               | : | Sulfur oxides.                                                                                                                                                                                                                                                                                                                                                       |

**SECTION 6: Accidental release measures**

- |                           |   |                                                                                                                                                                                                                                                                                   |
|---------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions      | : | Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas.                                                                                                                                                                                 |
| 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 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. |
| Advice on protection against fire and explosion | : | Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition.                                                                                                                                                                                                                       |

**Storage**

- |                                               |   |                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Requirements for storage areas and containers | : | Prevent unauthorized access. No smoking. Keep container tightly closed in a dry and 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. |
| Uses advised against                          | : | This material should not be used for purposes other than the                                                                                                                                                                                                                                                                        |

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identified uses in section 1 without expert advice.

Use : Chemical intermediate

**SECTION 8: Exposure controls/personal protection**

Not listed

**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 : If ventilation or other engineering controls are not adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. Full-Face Supplied-Air Respirator. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, 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 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.
- 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. Personal protection through wearing a tightly closed chemical protection suit and a self-contained breathing apparatus. Footwear protecting against chemicals.
- Hygiene measures : Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

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

SDS Number:100000013277

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**Appearance**

Form : liquid  
Physical state : liquid  
Color : Colorless  
Odor : Repulsive

**Safety data**

Flash point : 67°C (153°F)  
Method: closed cup

Lower explosion limit : No data available

Upper explosion limit : No data available

Oxidizing properties : No

Autoignition temperature : No data available

Molecular formula : C<sub>4</sub>H<sub>8</sub>O<sub>2</sub>S

Molecular weight : 120.18 g/mol

pH : Not applicable

Freezing point : No data available

Pour point : No data available

Boiling point/boiling range : 166-169°C (331-336°F)

Vapor pressure : 2.00 MMHG  
at 21°C (70°F)

Relative density : 1.11  
at 15 °C (59 °F), estimated

Water solubility : negligible

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

Viscosity, kinematic : No data available

Relative vapor density : 4.1  
(Air = 1.0)

Evaporation rate : No data available

Percent volatile : > 99 %

Conductivity : No data available

**SECTION 10: Stability and reactivity**

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- 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.  
Hazardous reactions: Vapors may form explosive mixture with air.
- Conditions to avoid** : Heat, flames and sparks.  
**Hazardous decomposition products** : Sulfur oxides
- Other data** : No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information**

- Methyl-3 Mercaptopropionate**  
**Acute oral toxicity** : Acute toxicity estimate: 194.58 mg/kg  
Method: Calculation method
- Methyl-3 Mercaptopropionate**  
**Acute inhalation toxicity** : Acute toxicity estimate: 0.5016 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: Calculation method
- Methyl-3 Mercaptopropionate**  
**Acute dermal toxicity** : Acute toxicity estimate: 1,910 mg/kg  
Method: Calculation method
- Skin irritation**  
Methyl 3-Mercaptopropionate : No skin irritation
- Methyl-3 Mercaptopropionate**  
**Eye irritation** : Irritation to eyes, reversing within 7 days  
Vapors may cause irritation to the eyes, respiratory system and the skin.
- Sensitization**

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Methyl 3-Mercaptopropionate : Did not cause sensitization on laboratory animals.

**Repeated dose toxicity**

Methyl 3-Mercaptopropionate : Species: Rat, Male and female  
Sex: Male and female  
Application Route: oral gavage  
Dose: 25, 50, 100 mg/kg  
Exposure time: 28 day  
Number of exposures: daily  
NOEL: 50 mg/kg  
Lowest observable effect level: 100 mg/kg  
Method: OECD Test Guideline 407  
Target Organs: Stomach

**Genotoxicity in vitro**

Methyl 3-Mercaptopropionate : Test Type: Ames test  
Result: negative

Test Type: Mouse lymphoma assay  
Result: negative

Test Type: Sister Chromatid Exchange Assay  
Result: positive

**Reproductive toxicity**

Methyl 3-Mercaptopropionate : Species: Rat  
Sex: male and female  
Application Route: oral gavage  
Dose: 25, 50, 100 mg/kg  
Number of exposures: daily  
Test period: 28 d  
Method: OECD Guideline 422  
NOAEL Parent: 100 mg/kg  
NOAEL F1: 100 mg/kg  
no abnormalities observed

**Developmental Toxicity**

Methyl 3-Mercaptopropionate : Species: Rat  
Application Route: Oral diet  
Dose: 25, 50, 100 mg/kg  
Test period: 28 d  
NOAEL Teratogenicity: 100 mg/kg  
NOAEL Maternal: 100 mg/kg  
No adverse effects expected

**Methyl-3 Mercaptopropionate  
Aspiration toxicity**

: No aspiration toxicity classification.

**CMR effects**

Methyl 3-Mercaptopropionate : Carcinogenicity: Not available  
Mutagenicity: Tests on bacterial or mammalian cell cultures  
did not show mutagenic effects.

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Reproductive toxicity: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

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**Further information** : No data available.

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

Methyl 3-Mercaptopropionate : LC50: 1.7 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)  
flow-through test Analytical monitoring: yes  
Method: OECD Test Guideline 203

**Toxicity to daphnia and other aquatic invertebrates**

Methyl 3-Mercaptopropionate : 0.55 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
static test Analytical monitoring: yes  
Method: OECD Test Guideline 202

**Toxicity to algae**

Methyl 3-Mercaptopropionate : ErC50: 0.65 mg/l  
Species: Desmodesmus subspicatus (green algae)  
Analytical monitoring: yes  
Method: OECD Test Guideline 201

**M-Factor**

|                             |                               |   |
|-----------------------------|-------------------------------|---|
| methyl 3-mercaptopropionate | M-Factor (Acute Aquat. Tox.)  | 1 |
|                             | M-Factor (Chron. Aquat. Tox.) | 1 |

**Biodegradability**

Methyl 3-Mercaptopropionate : aerobic  
Result: Not readily biodegradable.  
46.0 %  
Method: OECD Test Guideline 301

**Bioaccumulation**

Methyl 3-Mercaptopropionate : Bioconcentration factor (BCF): 3.16  
Method: Estimated based on individual component values.

**Mobility**

Methyl 3-Mercaptopropionate : No data available

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## Results of PBT assessment

Methyl 3-Mercaptopropionate : Non-classified PBT substance

Additional ecological  
information

: Very toxic to aquatic life with long lasting effects.

**Ecotoxicology Assessment**

## Short-term (acute) aquatic hazard

Methyl 3-Mercaptopropionate : Very toxic to aquatic life.

## Long-term (chronic) aquatic hazard

Methyl 3-Mercaptopropionate : 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 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)**

UN2810, TOXIC, LIQUIDS, ORGANIC, N.O.S., (METHYL 3-MERCAPTOPROPIONATE), 6.1, II

**IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**

UN2810, TOXIC LIQUID, ORGANIC, N.O.S., (METHYL 3-MERCAPTOPROPIONATE), 6.1, II, (67 °C c.c.), MARINE POLLUTANT, (METHYL 3-MERCAPTOPROPIONATE)

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**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

UN2810, TOXIC LIQUID, ORGANIC, N.O.S., (METHYL 3-MERCAPTOPROPIONATE), 6.1, II

**ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))**UN2810, TOXIC LIQUID, ORGANIC, N.O.S., (METHYL 3-MERCAPTOPROPIONATE),  
6.1, II, (D/E), ENVIRONMENTALLY HAZARDOUS, (METHYL 3-MERCAPTOPROPIONATE)**RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))**60, UN2810, TOXIC LIQUID, ORGANIC, N.O.S., (METHYL 3-MERCAPTOPROPIONATE), 6.1, II,  
ENVIRONMENTALLY HAZARDOUS, (METHYL 3-MERCAPTOPROPIONATE)**ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)**UN2810, TOXIC LIQUID, ORGANIC, N.O.S., (METHYL 3-MERCAPTOPROPIONATE), 6.1, II,  
ENVIRONMENTALLY HAZARDOUS, (METHYL 3-MERCAPTOPROPIONATE)**Maritime transport in bulk according to IMO instruments****SECTION 15: Regulatory information**Classification and Labeling of : Primary label: Toxic Material.  
Commonly Used Dangerous  
Chemical Substances**Notification status**

|                                     |                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Europe REACH                        | : This product is in full compliance according to REACH regulation 1907/2006/EC.                                                                                                                                                                                                                                                                                        |
| Switzerland CH INV                  | : On the inventory, or in compliance with the inventory                                                                                                                                                                                                                                                                                                                 |
| United States of America (USA) TSCA | : On or in compliance with the active portion of the TSCA inventory                                                                                                                                                                                                                                                                                                     |
| Canada DSL                          | : All components of this product are on the Canadian DSL                                                                                                                                                                                                                                                                                                                |
| Australia AIIC                      | : On the inventory, or in compliance with the inventory                                                                                                                                                                                                                                                                                                                 |
| New Zealand NZIoC                   | : Not in compliance with the inventory                                                                                                                                                                                                                                                                                                                                  |
| Japan ENCS                          | : On the inventory, or in compliance with the inventory                                                                                                                                                                                                                                                                                                                 |
| Japan ISHL                          | : On the inventory, or in compliance with the inventory                                                                                                                                                                                                                                                                                                                 |
| Korea KECI                          | : All substances in this product were registered, notified 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                                                                                                                                                                                                                                                                                                                 |
| Taiwan TCSI                         | : On the inventory, or in compliance with the inventory                                                                                                                                                                                                                                                                                                                 |
| China IECSC                         | : On the inventory, or in compliance with the inventory                                                                                                                                                                                                                                                                                                                 |
| Other TECI                          | : Not in compliance with the inventory                                                                                                                                                                                                                                                                                                                                  |

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**SECTION 16: Other information****Further information**

Legacy SDS Number : 75720

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%                                                                      |
| AIRC   | Australian Inventory of Industrial Chemicals             | 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%                                 | ATE   | Acute toxicity estimate                                                              |