# Sodium Methyl Mercaptide

Version 1.8 Revision Date 2025-06-12

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 | : | Sodium Methyl Mercaptide |
| Material | : | 1114147, 1114146, 1114145, 1065936, 1066239, 1030037, 1029154, 1029192, 1034903 |
| Use | : | Chemical intermediate |
| **Company** | : | Chevron Phillips Chemical Company LP<br>Specialty Chemicals<br>9500 Lakeside Blvd.<br>The Woodlands, TX 77381 |
| Local | : | Chevron Phillips Chemicals (Shanghai) Corporation<br>Room 1810-1812, Shanghai Mart,<br>2299 Yan An Road (W),<br>Shanghai, PRC 200336<br>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)

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

| | | |
|---|---|---|
| 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 2013)**

**Emergency Overview**

Danger

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

Hazards : Flammable liquid and vapor. Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Toxic to aquatic life.

**Classification**

: Flammable liquids, Category 3
Acute toxicity, Category 4, Oral
Skin corrosion/irritation, Category 1A
Serious eye damage/eye irritation, Category 1
Short-term (acute) aquatic hazard, Category 2

**Labeling**

Symbol(s) :

Signal Word : Danger

Hazard Statements : H226: Flammable liquid and vapor.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H401: Toxic to aquatic life.

Precautionary Statements : **Prevention:**
P210: Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P264: Wash skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P273: Avoid release to the environment.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
**Response:**
P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340+P310: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P363: Wash contaminated clothing before reuse.
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 : Methanethiol sodium salt
SMM
Sodium methanethiolate
Sodium methyl mercaptide 21%

Molecular formula : CH3SNa

| Chemical name | CAS-No. / EINECS-No. | Concentration [wt%] |
|---|---|---|
| Sodium Methanethiolate | 5188-07-8 | 20 - 25 |
| Sodium Hydroxide | 1310-73-2 | 0.4 - 1 |

## 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.

If inhaled : If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water. Keep respiratory tract clear. 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 : No data available.

## SECTION 5: Firefighting measures

Flash point : 29°C (84°F)
Method: Tag closed cup

Autoignition temperature : No data available

Suitable extinguishing media : Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.

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 a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). 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. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low 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). |

## 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. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. To avoid spills during handling keep bottle on a metal tray. 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. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition. |

**Storage**

| | | |
|---|---|---|
| Requirements for storage areas and containers | : | 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. |
| Use | : | Chemical intermediate |

## SECTION 8: Exposure controls/personal protection

### Ingredients with workplace control parameters

**CN**

| Components | Basis | Value | Control parameters | Note |
|---|---|---|---|---|
| Sodium Hydroxide | CN OEL | MAC | 2 mg/m3 | |

Not listed

### Engineering measures

Adequate ventilation to control airborned 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:. Air-Purifying Respirator for Organic Vapors. 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 antistatic protective clothing. Workers should wear antistatic footwear. Complete head face and neck protection. Rubber |

apron. 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 | : | Pungent |

**Safety data**

| | | |
|---|---|---|
| Flash point | : | 29°C (84°F)<br>Method: Tag closed cup |
| Lower explosion limit | : | No data available |
| Upper explosion limit | : | No data available |
| Oxidizing properties | : | No |
| Autoignition temperature | : | No data available |
| Thermal decomposition | : | No data available |
| Molecular formula | : | CH3SNa |
| Molecular weight | : | 70.08 g/mol |
| pH | : | > 10 |
| Pour point | : | No data available |
| Boiling point/boiling range | : | Not applicable, Decomposes |
| Vapor pressure | : | 20.00 MMHG<br>at 24°C (75°F) |
| Relative density | : | No data available |
| Density | : | 1.138 G/ML<br>at 30°C (86°F) |
| Water solubility | : | soluble |
| Partition coefficient: n-octanol/water | : | No data available |
| Viscosity, kinematic | : | No data available |
| Relative vapor density | : | 1<br>(Air = 1.0) |

| | | |
|---|---|---|
| Evaporation rate | : | No data available |
| Percent volatile | : | 79 % |
| Conductivity | : | 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 reactions: Hazardous polymerization does not occur.

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.

**Thermal decomposition** : No data available

**Hazardous decomposition products** : Sulfur oxides

**Other data** : No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

**Acute oral toxicity**

Sodium Methanethiolate : LD50: 581 mg/kg
Species: Rat
Sex: male and female
Method: OECD Test Guideline 401

**Acute inhalation toxicity**

Sodium Methanethiolate : No data available

**Acute dermal toxicity**

Sodium Methanethiolate : LD50: > 400 mg/kg
Species: Rat

Sex: male and female
Method: OECD Test Guideline 402

**Sodium Methyl Mercaptide**
**Skin irritation** : Extremely corrosive and destructive to tissue.
Information given is based on tests on the mixture itself.

**Sodium Methyl Mercaptide**
**Eye irritation** : Irreversible effects on the eye

**Sodium Methyl Mercaptide**
**Sensitization** : Did not cause sensitization on laboratory animals.

**Repeated dose toxicity**

Sodium Methanethiolate : Species: Rat, male
Sex: male
Application Route: Inhalation
Dose: 0, 2, 17, 57 ppm
Exposure time: 13 wk
Number of exposures: 7 h/d, 5 d/wk
NOEL: 0.033 mg/l 17 ppm
Lowest observable effect level: 0.118 mg/l 57 ppm
Target Organs: Liver
Information given is based on data obtained from similar substances.

Species: Rat, male
Sex: male
Application Route: oral gavage
Dose: 5, 15, 45 mg/kg/day
Exposure time: 8 wk
Number of exposures: once/d, 7 d/wk
NOEL: 15 mg/kg
Lowest observable effect level: 45 mg/kg
Method: OECD Test Guideline 422
Target Organs: Blood, spleen

Species: Rat, female
Sex: female
Application Route: oral gavage
Dose: 5, 15, 45 mg/kg/day
Exposure time: 8 - 9 wk
Number of exposures: once/d, 7 d/wk
NOEL: 15 mg/kg
Lowest observable effect level: 45 mg/kg
Method: OECD Test Guideline 422
Target Organs: Blood, spleen

**Genotoxicity in vitro**

Sodium Methanethiolate : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

| | |
|---|---|
| | Test Type: Cytogenetic assay<br>Metabolic activation: with and without metabolic activation<br>Method: OECD Test Guideline 473<br>Result: Ambiguous |
| Sodium Hydroxide | Test Type: Ames test<br>Result: negative<br><br>Test Type: DNA damage and repair assay<br>Result: negative<br><br>Test Type: Mammalian cell gene mutation assay<br>Result: positive |

**Genotoxicity in vivo**

| | | |
|---|---|---|
| Sodium Methanethiolate | : | Test Type: Micronucleus test<br>Species: Mouse<br>Cell type: Bone marrow<br>Route of Application: Oral<br>Method: OECD Test Guideline 474<br>Result: negative |
| Sodium Hydroxide | | Test Type: Mouse micronucleus assay<br>Result: negative |

**Reproductive toxicity**

| | | |
|---|---|---|
| Sodium Methanethiolate | : | Species: Rat<br>Sex: male<br>Application Route: oral gavage<br>Dose: 5, 15, 45 mg/kg<br>Exposure time: 8 wk<br>Number of exposures: once/d, 7 d/wk<br>Test period: 4 wks premating, mating and...<br>Method: OECD Guideline 422<br>NOAEL Parent: > 45 mg/kg<br>NOAEL F1: > 45 mg/kg<br><br>Species: Rat<br>Sex: female<br>Application Route: oral gavage<br>Dose: 5, 15, 45 mg/kg<br>Exposure time: 8 - 9 wk<br>Number of exposures: once/d, 7 d/wk<br>Test period: 4 wks premating, mating and...<br>Method: OECD Guideline 422<br>NOAEL Parent: > 45 mg/kg<br>NOAEL F1: > 45 mg/kg |

**Sodium Methyl Mercaptide**
**Aspiration toxicity** : No aspiration toxicity classification.

**Sodium Methyl Mercaptide**
**Further information** : Solvents may degrease the skin.

## SECTION 12: Ecological information

**Toxicity to fish**

Sodium Methanethiolate : LC50: 1.8 mg/l
Exposure time: 96 h
Species: Danio rerio (Zebra Fish)
semi-static test Method: OECD Test Guideline 203

**Toxicity to daphnia and other aquatic invertebrates**

Sodium Methanethiolate : EC50: 1.32 - 2.46 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
static test Method: OECD Test Guideline 202

**Toxicity to algae**

Sodium Methanethiolate : ErC50: 15 mg/l
Exposure time: 72 h
Species: Pseudokirchneriella subcapitata (green algae)
static test Method: OECD Test Guideline 201

Biodegradability

Sodium Methanethiolate : aerobic
Result: Readily biodegradable.
64 %
Testing period: 28 d
Method: OECD Test Guideline 301D

Bioaccumulation

Sodium Methanethiolate : This material is not expected to bioaccumulate.

Mobility

Sodium Methanethiolate : No data available

Additional ecological information : Toxic to aquatic life.

**Ecotoxicology Assessment**

Short-term (acute) aquatic hazard
Sodium Methanethiolate : Toxic to aquatic life.

Long-term (chronic) aquatic hazard
Sodium Methanethiolate : This product has no known ecotoxicological 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)**
UN2920, CORROSIVE LIQUIDS, FLAMMABLE, N.O.S., (SODIUM METHANETHIOLATE, SODIUM HYDROXIDE), 8 (3), I, RQ (SODIUM HYDROXIDE)

**IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**
UN2920, CORROSIVE LIQUID, FLAMMABLE, N.O.S., (SODIUM METHANETHIOLATE, SODIUM HYDROXIDE), 8 (3), I, (29 °C c.c.)

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**
UN2920, CORROSIVE LIQUID, FLAMMABLE, N.O.S., (SODIUM METHANETHIOLATE, SODIUM HYDROXIDE), 8 (3), I

**ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))**
UN2920, CORROSIVE LIQUID, FLAMMABLE, N.O.S., (SODIUM METHANETHIOLATE, SODIUM HYDROXIDE), 8 (3), I, (D/E)

**RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))**
883,UN2920,CORROSIVE LIQUID, FLAMMABLE, N.O.S., (SODIUM METHANETHIOLATE, SODIUM HYDROXIDE), 8 (3), I

**ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)**
UN2920, CORROSIVE LIQUID, FLAMMABLE, N.O.S., (SODIUM METHANETHIOLATE, SODIUM HYDROXIDE), 8 (3), I

**Maritime transport in bulk according to IMO instruments**

## SECTION 15: Regulatory information

| | | |
|---|---|---|
| Classification and Labeling of Commonly Used Dangerous Chemical Substances | : | Primary label: Corrosive Material., Secondary label: Combustible Liquid. |

**Notification status**

| | | |
|---|---|---|
| Europe REACH | : | Not in compliance with the inventory |
| Switzerland CH INV | : | Not in compliance with the inventory |
| United States of America (USA) TSCA | : | On or in compliance with the active portion of the TSCA inventory |
| Canada NDSL | : | None of the components of this product are on the Canadian DSL, but all are on the NDSL |
| Australia AIIC | : | Not 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 |

**Other regulations** : Law on the Prevention and Control of Occupational Diseases

## SECTION 16: Other information

**Further information**

Legacy SDS Number : 681520

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 | | | |
|---|---|---|---|
| ACGIH | American Conference of Government Industrial Hygienists | LD50 | Lethal Dose 50% |
| AIIC | 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 |