

SAFETY DATA SHEET



Methyl-3 Mercaptopropionate

Version 2.0

Revision Date 2026-01-28

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

Product information

Product Name : Methyl-3 Mercaptopropionate
Material : 1131212, 113892, 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

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 the SDS : 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**

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Classification

: Flammable liquids, Category 4
 Acute toxicity, Category 3, Oral
 Acute toxicity, Category 2, Inhalation
 Acute toxicity, Category 4, Dermal
 Eye irritation, Category 2B

Labeling

Symbol(s) :



Signal Word : Danger

Hazard Statements : H227: Combustible liquid.
 H301: Toxic if swallowed.
 H312: Harmful in contact with skin.

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H320: Causes eye irritation.
 H330: Fatal if inhaled.

Precautionary Statements**: Prevention:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing 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.

: Storage:

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

P405 Store locked up.

: Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects

Symptoms of Overexposure : No data available

Carcinogenicity:**IARC**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 3: Composition/information on ingredients

Synonyms : MMP
 Methyl beta-Mercaptopropionate
 Methyl-3 Mercaptopropionate

Molecular formula : C4H8O2S

SDS Number:100000013277

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Component	CAS-No.	Weight %
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 (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.

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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 identified uses in section 1 without expert advice.

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Use : Chemical intermediate

SECTION 8: Exposure controls/personal protection

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:.. 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

Appearance

Form : liquid

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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 : C4H8O2S

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

Reactivity : Stable under recommended storage conditions.

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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

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Acute oral toxicity : Acute toxicity estimate: 194.58 mg/kg
Method: Calculation method

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Acute inhalation toxicity : Acute toxicity estimate: 0.5016 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

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Acute dermal toxicity : Acute toxicity estimate: 1,910 mg/kg
Method: Calculation method

Skin irritation

Methyl 3-Mercaptopropionate : No skin irritation

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Eye irritation : Irritation to eyes, reversing within 7 days

Vapors may cause irritation to the eyes, respiratory system and the skin.

Sensitization

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

Repeated dose toxicity

Methyl 3-Mercaptopropionate : Species: Rat, Male and female

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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

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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.
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

Results of PBT assessment

Methyl 3-Mercaptopropionate : Non-classified PBT substance

Additional ecological : Very toxic to aquatic life with long lasting effects.

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information

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)

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))

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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

National legislation

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Acute toxicity (any route of exposure)
Serious eye damage or eye irritation

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO – KNOW

CERCLA Reportable Quantity : Listed substances in the product are at low enough levels to not be expected to exceed the RQ

Hydrogen Sulfide

SARA 302 Reportable Quantity : Listed substances in the product are at low enough levels to not be expected to exceed the RQ

Hydrogen Sulfide

SARA 302 Threshold Planning Quantity : This material does not contain any components with a section 302 EHS TPQ.

SARA 304 Reportable Quantity : Listed substances in the product are at low enough levels to not be expected to exceed the RQ
Hydrogen Sulfide 7783-06-4 100 lbs

SARA 313 Components : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMi Intermediate or Final VOC's (40 CFR 60.489).

US State Regulations

Pennsylvania Right To Know

: Methyl 3-Mercaptopropionate - 2935-90-2
Hydrogen Sulfide - 7783-06-4

California Prop. 65 Components

: This product, as shipped, does not contain any carcinogens or reproductive toxins presently known by the State of California to cause cancer or reproductive toxicity at a level of exposure subject to the requirements of California Proposition 65.

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)

: On or in compliance with the active portion of the

TSCA

: 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 KECL

: 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

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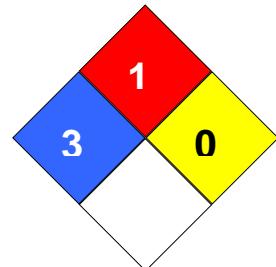
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permitted if the Korean Importer of Record was included on CPChem's notifications or if the Importer of Record themselves notified the substances.

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

SECTION 16: Other information

NFPA Classification	:	Health Hazard: 3 Fire Hazard: 1 Reactivity Hazard: 0
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Revision Date	:	2026-01-28
Date of last issue	:	2025-09-24

Further information

Legacy SDS Number	:	75720
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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

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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