

**Methyl-3 Mercaptopropionate**

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28 Date of first issue: 2009-10-27

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Methyl-3 Mercaptopropionate

Material : 1131212, 1113892, 1086430, 1093790, 1086431, 1086432, 1086433, 1066661, 1025300, 1024824, 1027475, 1024823

Product code : 000000000000000000 000000000000000000

Recommended use of the chemical and restrictions on use

Recommended use : Chemical intermediate

Restrictions on use : This material should not be used for purposes other than the identified uses in section 1 without expert advice.

Manufacturer or supplier's details

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

Address : CHEVRON PHILLIPS CHEMICALS ASIA PTE. LTD.
C/O DONG WOO CORPORATION
#B-2601, JEONGJAIL-RO,
BUNDANG-GU, SEONGNAMI-SI,
GYEONGGI-DO, 13557
SOUTH KOREA
Telephone no.: +612-9186-1132

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)



Methyl-3 Mercaptopropionate

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Inter-)	MSDS number: AA00974-0000000612
3.0	2026-08-03	nal):	Date of last issue: 2026-01-28
		100000013277	Date of first issue: 2009-10-27

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

Organization that prepared the SDS : Product Safety and Toxicology Group
 E-mail address : SDS@CPChem.com
 Website : www.CPChem.com
 Appointees : 회사명: 리이치 24 시코리아(주).

주소: 서울시 서초구 헌릉로 7,
 외국기업창업지원연구센터

Methyl-3 Mercaptopropionate

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28
			Date of first issue: 2009-10-27

(IKP) 908-909호

전화: +82-1067838981

2. HAZARDS IDENTIFICATION**GHS Classification**

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

GHS label elements

Hazard pictograms



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.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames

**Methyl-3 Mercaptopropionate**

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28
			Date of first issue: 2009-10-27

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.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ 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.
P405 Store locked up.

Disposal:

P501 Dispose of contents/ container according to waste-related laws

Other hazards which do not result in classification

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS**Components**

Chemical name	Common	CAS-No.	Concentration (%)
---------------	--------	---------	-------------------

SDS Number:100000013277

4/26



Methyl-3 Mercaptopropionate

Version 3.0

Revision Date 2026-08-03

Version 3.0 Revision Date: 2026-08-03 SDS Number (Internal): 100000013277 MSDS number: AA00974-0000000612
 Date of last issue: 2026-01-28
 Date of first issue: 2009-10-27

	Name		w/w)
Methyl 3-Mercaptopropionate	methyl 3-mercapto-propionate	2935-90-2	>= 95 - <= 100
Dimethyl Thiodipropionate	dimethyl 3,3'-thiobispropionate	4131-74-2	>= 0 - < 1
Methyl 3-Mercaptopropionate	methyl 3-mercapto-propionate	2935-90-2	>= 95 - <= 100
Dimethyl Thiodipropionate	dimethyl 3,3'-thiobispropionate	4131-74-2	>= 1 - < 5

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.
- 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.
- In case of skin contact : Take victim immediately to hospital.
 If on skin, rinse well with water.
 If on clothes, remove clothes.
- If inhaled : Call a physician or poison control center immediately.
 If unconscious, place in recovery position and seek medical advice.
- 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.
- Most important symptoms and effects, both acute and delayed : No data available
 No data available
- Notes to physician : Treat symptomatically.

**Methyl-3 Mercaptopropionate**

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28
			Date of first issue: 2009-10-27

5. FIRE-FIGHTING MEASURES**Suitable and unsuitable extinguishing media**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.

Specific extinguishing methods : 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.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : 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 and materials for containment and 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.

7. HANDLING AND STORAGEAdvice 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

**Methyl-3 Mercaptopropionate**

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28
			Date of first issue: 2009-10-27

- ignition.
- 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.
- Conditions for safe storage : 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.
- Further information on storage stability : No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

- 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. Among the following personal protective equipment, the PPEs which require safety certification need to be certified by KOSHA.

- 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.

**Methyl-3 Mercaptopropionate**

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28 Date of first issue: 2009-10-27

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.

Eye protection : Eye wash bottle with pure water
Hand protection

Remarks : 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.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : Colorless

Odor : Repulsive

Odor Threshold : No data available

pH : Not applicable

**Methyl-3 Mercaptopropionate**

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28
			Date of first issue: 2009-10-27

Freezing point	:	No data available
Pour point	:	No data available
Boiling point/boiling range	:	166 - 169 °C
Flash point	:	67 °C
	:	Method: closed cup
Evaporation rate	:	No data available
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	2 MMHG (21 °C)
Solubility(ies)	:	
Water solubility	:	negligible
Relative vapor density	:	4.1 (Air = 1.0)
Relative density	:	1.11 (15 °C) estimated
Partition coefficient: n-octanol/water	:	No data available
Viscosity	:	
Viscosity, kinematic	:	No data available
Oxidizing properties	:	No
Molecular weight	:	120.18 g/mol

10. STABILITY AND REACTIVITY

Chemical stability and possibility of hazardous reactions	:	Reactivity: Stable under recommended storage conditions.
---	---	---

**Methyl-3 Mercaptopropionate**

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28
			Date of first issue: 2009-10-27

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 polymerization does not occur.

Possibility of hazardous reactions:

Vapors may form explosive mixture with air.

Conditions to avoid	:	Heat, flames and sparks.
Hazardous decomposition products	:	Sulfur oxides

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : No data available

Health hazard information**Acute toxicity**

Toxic if swallowed.

Harmful in contact with skin.

Fatal if inhaled.

Product:

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

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

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

Components:**Methyl 3-Mercaptopropionate:**

Acute oral toxicity	:	LD50 (Rat, male and female): 194 mg/kg Method: OECD Test Guideline 401 GLP: yes Assessment: 1 - harmful
---------------------	---	--

Acute inhalation toxicity	:	LC50 (Rat): 1.8 - 2.11 mg/l Exposure time: 4 h Test atmosphere: vapor
---------------------------	---	---

**Methyl-3 Mercaptopropionate**

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28 Date of first issue: 2009-10-27

Method: OECD Test Guideline 403

GLP: yes

Assessment: 1 - toxic

Acute dermal toxicity : LD50 (Rabbit, male and female): 1,903.7 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: 1- harmful

Dimethyl Thiodipropionate:

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Methyl 3-Mercaptopropionate:

Acute oral toxicity : LD50 (Rat, male and female): 194 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Assessment: 1 - harmful

Acute inhalation toxicity : LC50 (Rat): 1.8 - 2.11 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: OECD Test Guideline 403
GLP: yes
Assessment: 1 - toxic

Acute dermal toxicity : LD50 (Rabbit, male and female): 1,903.7 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: 1- harmful

Dimethyl Thiodipropionate:

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Skin corrosion/irritation

Not applicable

**Methyl-3 Mercaptopropionate**

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28
			Date of first issue: 2009-10-27

Components:**Methyl 3-Mercaptopropionate:**

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes

Dimethyl Thiodipropionate:

Result : Skin irritation

Methyl 3-Mercaptopropionate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes

Dimethyl Thiodipropionate:

Result : Skin irritation

Serious eye damage/eye irritation

Causes eye irritation.

Product:

Species : Rabbit
Result : Irritation to eyes, reversing within 7 days
Method : OECD Test Guideline 405

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

Components:**Methyl 3-Mercaptopropionate:**

Species : Rabbit
Result : Irritation to eyes, reversing within 7 days
Method : OECD Test Guideline 405
GLP : yes

Dimethyl Thiodipropionate:

Result : Mild eye irritation

**Methyl-3 Mercaptopropionate**

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28
			Date of first issue: 2009-10-27

Methyl 3-Mercaptopropionate:

Species : Rabbit
Result : Irritation to eyes, reversing within 7 days
Method : OECD Test Guideline 405
GLP : yes

Dimethyl Thiodipropionate:

Result : Mild eye irritation

Respiratory or skin sensitization**Respiratory sensitization**

Not applicable

Skin sensitization

Not applicable

Components:**Methyl 3-Mercaptopropionate:**

Species : Mouse
Method : OECD Test Guideline 429
Result : Did not cause sensitization on laboratory animals.
GLP : yes

Methyl 3-Mercaptopropionate:

Species : Mouse
Method : OECD Test Guideline 429
Result : Did not cause sensitization on laboratory animals.
GLP : yes

Carcinogenicity

No data available

Components:**Methyl 3-Mercaptopropionate:**

No data available

Carcinogenicity - Assessment : Not available

Dimethyl Thiodipropionate:

No data available

**Methyl-3 Mercaptopropionate**

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28
			Date of first issue: 2009-10-27

Methyl 3-Mercaptopropionate:

No data available

Carcinogenicity - Assessment : Not available

Dimethyl Thiodipropionate:

No data available

Germ cell mutagenicity

Not applicable

Components:**Methyl 3-Mercaptopropionate:**

Not applicable

Genotoxicity in vitro : Test Type: Ames test
Result: negativeTest Type: Mouse lymphoma assay
Result: negativeTest Type: Sister Chromatid Exchange Assay
Result: positive

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Dimethyl Thiodipropionate:

No data available

Methyl 3-Mercaptopropionate:

Not applicable

Genotoxicity in vitro : Test Type: Ames test
Result: negativeTest Type: Mouse lymphoma assay
Result: negativeTest Type: Sister Chromatid Exchange Assay
Result: positive

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show

Version 3.0

Revision Date 2026-08-03

Version 3.0	Revision Date: 2026-08-03	SDS Number (Internal): 100000013277	MSDS number: AA00974-0000000612 Date of last issue: 2026-01-28 Date of first issue: 2009-10-27
----------------	------------------------------	--	--

assessment mutagenic effects.

Dimethyl Thiodipropionate:

No data available

Reproductive toxicity

No data available

Components:

Methyl 3-Mercaptopropionate:

No data available

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

Dimethyl Thiodipropionate:

No data available

Methyl 3-Mercaptopropionate:

No data available

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

Dimethyl Thiodipropionate:

No data available

STOT-single exposure

No data available

Product:

Remarks : No data available

STOT-repeated exposure

No data available

Product:

Remarks : No data available

**Methyl-3 Mercaptopropionate**

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28
			Date of first issue: 2009-10-27

Repeated dose toxicity**Components:****Methyl 3-Mercaptopropionate:**

Species	: Rat, Male and female
NOAEL	: 50 mg/kg
LOAEL	: 100 mg/kg
Application Route	: oral gavage
Exposure time	: 28 day
Number of exposures	: daily
Dose	: 25, 50, 100 mg/kg
Method	: OECD Test Guideline 407
GLP	: yes
Target Organs	: Stomach
Symptoms	: gastrointestinal irritation

Methyl 3-Mercaptopropionate:

Species	: Rat, Male and female
NOAEL	: 50 mg/kg
LOAEL	: 100 mg/kg
Application Route	: oral gavage
Exposure time	: 28 day
Number of exposures	: daily
Dose	: 25, 50, 100 mg/kg
Method	: OECD Test Guideline 407
GLP	: yes
Target Organs	: Stomach
Symptoms	: gastrointestinal irritation

Aspiration toxicity

No data available

Product:

No aspiration toxicity classification

Experience with human exposure

No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

**Methyl-3 Mercaptopropionate**

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28
			Date of first issue: 2009-10-27

Further information**Product:**

Remarks : No data available

12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Methyl 3-Mercaptopropionate:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.7 mg/l
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): 0.55 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 0.65 mg/l
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Dimethyl Thiodipropionate:

Toxicity to fish : Remarks: No data available

**Methyl-3 Mercaptopropionate**

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28
			Date of first issue: 2009-10-27

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae/aquatic plants : Remarks: No data available

Ecotoxicology Assessment

Acute aquatic toxicity : This material is not expected to be harmful to aquatic organisms.

Chronic aquatic toxicity : This material is not expected to be harmful to aquatic organisms.

Methyl 3-Mercaptopropionate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.7 mg/l
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): 0.55 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 0.65 mg/l
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Dimethyl Thiodipropionate:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other : Remarks: No data available

**Methyl-3 Mercaptopropionate**

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28
			Date of first issue: 2009-10-27

aquatic invertebrates

Toxicity to algae/aquatic plants : Remarks: No data available

Ecotoxicology Assessment

Acute aquatic toxicity : This material is not expected to be harmful to aquatic organisms.

Chronic aquatic toxicity : This material is not expected to be harmful to aquatic organisms.

Persistence and degradability**Components:****Methyl 3-Mercaptopropionate:**Biodegradability : aerobic
Result: Not readily biodegradable.
Biodegradation: 46.0 %
Method: OECD Test Guideline 301
GLP: yes**Dimethyl Thiodipropionate:**

Biodegradability : Remarks: This material is not expected to be readily biodegradable.

Methyl 3-Mercaptopropionate:Biodegradability : aerobic
Result: Not readily biodegradable.
Biodegradation: 46.0 %
Method: OECD Test Guideline 301
GLP: yes**Dimethyl Thiodipropionate:**

Biodegradability : Remarks: This material is not expected to be readily biodegradable.

Bioaccumulative potential**Components:****Methyl 3-Mercaptopropionate:**Bioaccumulation : Bioconcentration factor (BCF): 3.16
Method: Estimated based on individual component values.

**Methyl-3 Mercaptopropionate**

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28
			Date of first issue: 2009-10-27

Dimethyl Thiodipropionate:

Bioaccumulation : Remarks: This material is not expected to bioaccumulate.

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

Bioaccumulation : Remarks: This material is not expected to bioaccumulate.

Mobility in soil**Components:****Methyl 3-Mercaptopropionate:**

Mobility : Remarks: No data available

Dimethyl Thiodipropionate:

Mobility : Remarks: No data available

Methyl 3-Mercaptopropionate:

Mobility : Remarks: No data available

Dimethyl Thiodipropionate:

Mobility : Remarks: No data available

Other adverse effects**Product:**

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

Components:**Methyl 3-Mercaptopropionate:**

Results of PBT and vPvB assessment : Non-classified PBT substance

Methyl 3-Mercaptopropionate:

Results of PBT and vPvB assessment : Non-classified PBT substance

**Methyl-3 Mercaptopropionate**

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28
			Date of first issue: 2009-10-27

Endocrine disrupting properties

No data available

13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : 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.

Disposal precautions

Dispose of contents and container according to wastes control act.

14. TRANSPORT INFORMATION**International Regulations****IATA-DGR**

UN/ID No. : UN 2810
Proper shipping name : Toxic liquid, organic, n.o.s.
(Methyl 3-mercaptopropionate)
Class : 6.1
Packing group : II
Labels : Class 6 - Toxic Substance (Division 6.1)
Packing instruction (cargo aircraft) : 611

IMDG-Code

UN number : UN 2810
Proper shipping name : TOXIC LIQUID, ORGANIC, N.O.S.
(Methyl 3-mercaptopropionate)
Class : 6.1
Packing group : II
Labels : 6.1
EmS Code : F-A, S-A
Marine pollutant : no

Maritime transport in bulk according to IMO instruments

II - Hazardous Properties

**Methyl-3 Mercaptopropionate**

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28
			Date of first issue: 2009-10-27

Domestic regulation

Refer to section 15 for specific national regulation.

Special precautions for user

Remarks : UN2810

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION**National regulatory information****Regulation under the Occupational Safety and Health Act****Harmful Substances Prohibited from Manufacturing**

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Harmful Agents to be kept below Occupational Exposure Limits

Not applicable

Harmful Agents Required to be kept below Permission Levels

Not applicable

Hazardous substances requiring management

Not applicable

Special Management Materials

Not applicable

Controlled Substances Subject to Environment Monitoring

Not applicable

Controlled Substances Subject to Health Examination

Not applicable

Hazardous Substances Subject to Process Safety Management (PSM) Reporting Obligation

Not applicable

K-OSHA Hazardous Substances (Occupational Safety and Health Regulations, Table 1)

Category
Acute toxic substances (oral)
Acute toxic substances (inhalation)

**Methyl-3 Mercaptopropionate**

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28
			Date of first issue: 2009-10-27

K-OSHA Hazardous Substances (Occupational Safety and Health Regulations, Table 9)

Category	Manufacturing or handling quantity
Acute toxic substances (oral)	100 kilogram
Acute toxic substances (inhalation)	20 kilogram

Regulation under the Chemicals Control Act**Restricted Chemicals**

Not applicable

Prohibited Chemicals

Not applicable

Toxic Release Inventory

Not applicable

Accident Precaution Chemicals

Not applicable

Chemicals of Acute and Chronic Hazard to Human Health and the Environment**Substances Acutely hazardous to humans**

Not applicable

Substances Chronically hazardous to humans

Not applicable

Substances Hazardous to the environment

Not applicable

Accident Precaution Chemicals

Not applicable

Toxic Release Inventory

Not applicable

Act on Registration and Evaluation of Chemical Substances (K-REACH)**Restricted Chemicals**

Not applicable

Prohibited Chemicals

Not applicable

Substances with Unconfirmed Hazards

Not applicable

Dangerous Substances Safety Management Act

Classification : Group 4, Flammable liquids, Type 2 petroleums, Water insoluble liquid

**Methyl-3 Mercaptopropionate**

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28
			Date of first issue: 2009-10-27

Hazard rank : Hazardous rank III

Designated Quantity : 1000 liter

Safety Warning : Keep away from fire

Waste Control Act

Industrial general wastes
Follow article 13 of the act to dispose the product waste

Other requirements in domestic and other countries**The ingredients of this product are reported in the following inventories:**

EU REACH	: This product is in full compliance according to REACH regulation 1907/2006/EC.
CH INV	: On the inventory, or in compliance with the inventory
TSCA	: On or in compliance with the active portion of the TSCA inventory
DSL	: All components of this product are on the Canadian DSL
AU AIIC	: On the inventory, or in compliance with the inventory
NZIoC	: Not in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
ISHL	: On the inventory, or in compliance with the inventory
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.
PICCS	: On the inventory, or in compliance with the inventory
TW TCSI	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
TECI	: Not in compliance with the inventory



Methyl-3 Mercaptopropionate

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28
			Date of first issue: 2009-10-27

16. OTHER INFORMATION

Further information

Issuing date : 2009-10-27

Revision number and date

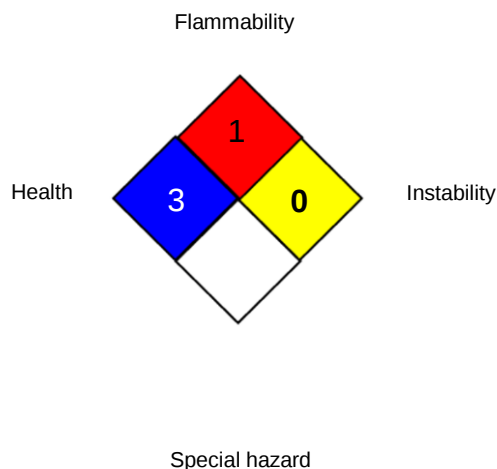
Number of Revision : 3.0

Revision Date : 2026-08-03

Other information : None.

Date format : yyyy/mm/dd

NFPA:



Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International

**Methyl-3 Mercaptopropionate**

Version 3.0

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000612
3.0	2026-08-03	100000013277	Date of last issue: 2026-01-28
			Date of first issue: 2009-10-27

Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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.

KR / EN