

**Sodium Methyl Mercaptide**

Version 1.12

Revision Date 2023-08-14

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2020/878

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Product information**

Product Name : Sodium Methyl Mercaptide
Material : 1114147, 1114146, 1114145, 1065936, 1066239, 1030037,
1029154, 1029192, 1034903

1.2**Relevant identified uses of the substance or mixture and uses advised against**

Relevant Identified Uses : Use as an intermediate
Supported

1.3**Details of the supplier of the safety data sheet**

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

Local : Chevron Phillips Chemicals International N.V.
Airport Plaza (Stockholm Building)
Leonardo Da Vincilaan 19
1831 Diegem
Belgium

SDS Requests: (800) 852-5530
Responsible Party: Product Safety Group
Email:sds@cpchem.com

1.4**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)

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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 (Gifftlinjen): +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: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 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**2.1****Classification of the substance or mixture
REGULATION (EC) No 1272/2008**




| | |
|---------------------------------|---|
| Flammable liquids, Category 3 | H226: Flammable liquid and vapor. |
| Acute toxicity, Category 4 | H302: Harmful if swallowed. |
| Skin corrosion, Sub-category 1A | H314: Causes severe skin burns and eye damage. |
| Serious eye damage, Category 1 | H318: Causes serious eye damage. |

2.2**Labeling (REGULATION (EC) No 1272/2008)**

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| | | |
|--------------------------|---|--|
| Hazard pictograms | : |    |
| Signal Word | : | Danger |
| Hazard Statements | : | H226 Flammable liquid and vapor. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. |
| Precautionary Statements | : | Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. Response: P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. |

Hazardous ingredients which must be listed on the label:

- 5188-07-8 Sodium Methanethiolate
- 1310-73-2 Sodium Hydroxide

2.3**Other hazards**

| | | |
|------------------------------------|---|---|
| Results of PBT and vPvB assessment | : | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. |
| Endocrine disrupting properties | : | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |

SECTION 3: Composition/information on ingredients**3.1 - 3.2****Substance or Mixture**

Synonyms : Methanethiol sodium salt

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Sodium methanethiolate
SMM
Sodium methyl mercaptide 21%

Molecular formula : CH₃SNa

Hazardous ingredients

| Chemical name | CAS-No. EC-No. Index No. | Classification (REGULATION (EC) No 1272/2008) | Concentration [wt%] | Specific Conc. Limits, M-factors and ATEs |
|-------------------------------|--|---|------------------------|---|
| Sodium Methanethiolate | 5188-07-8 225-969-9 | Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318 | 20 - 25 | |
| Sodium Hydroxide | 1310-73-2 215-185-5 011-002-00-6 | Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318 | 0,4 - 1 | |

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures**4.1****Description of 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.

4.2 Most important symptoms and effects, both acute and delayed**Notes to physician**

- Symptoms : No data available.
- Risks : No data available.

4.3 Indication of any immediate medical attention and special treatment needed

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Treatment : No data available.

SECTION 5: Firefighting measuresFlash point : 29°C (84°F)
Method: Tag closed cup

Autoignition temperature : No data available

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

Unsuitable extinguishing media : High volume water jet.

5.2**Special hazards arising from the substance or mixture**

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

5.3**Advice for firefighters**

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**6.1****Personal precautions, protective equipment and emergency procedures**

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.

6.2**Environmental precautions**

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.

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6.3**Methods and materials for containment and cleaning up**

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).

6.4**Reference to other sections**

Reference to other sections : For personal protection see section 8. For disposal considerations see section 13.

SECTION 7: Handling and storage**7.1****Precautions for safe handling
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.

7.2**Conditions for safe storage, including any incompatibilities****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.

SECTION 8: Exposure controls/personal protection**8.1****Control parameters
Ingredients with workplace control parameters****SK**

| Zložky | Podstata | Hodnota | Kontrolné parametre | Poznámka |
|------------------|----------|----------------|---------------------|----------|
| Sodium Hydroxide | SK OEL | NPEL priemerný | 2 mg/m ³ | |

SE

| Beståndsdelar | Grundval | Värde | Kontrollparametrar | Anmärkning |
|---------------|----------|-------|--------------------|------------|
| | | | | |

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| | | | | |
|------------------|--------|-----|---------|--------------------|
| Sodium Hydroxide | SE AFS | NGV | 1 mg/m3 | Inhalerbart |
| | SE AFS | TGV | 2 mg/m3 | Inhalerbart |
| | SE AFS | NGV | 1 mg/m3 | inhalabel fraktion |
| | SE AFS | KGV | 2 mg/m3 | inhalabel fraktion |

RO

| | | | | |
|------------------|--------|---------|----------------------|------|
| Componente | Sursă | Valoare | Parametri de control | Notă |
| Sodium Hydroxide | RO OEL | TWA | 1 mg/m3 | |
| | RO OEL | STEL | 3 mg/m3 | |

PT

| | | | | |
|------------------|--------|--------|------------------------|------|
| Componentes | Bases | Valor | Parâmetros de controlo | Nota |
| Sodium Hydroxide | PT OEL | VLE-CE | 2 mg/m3 | |

PL

| | | | | |
|------------------|----------|---------|------------------------------|-------|
| Składniki | Podstawa | Wartość | Parametry dotyczące kontroli | Uwaga |
| Sodium Hydroxide | PL NDS | NDS | 0,5 mg/m3 | |
| | PL NDS | NDSch | 1 mg/m3 | |

NO

| | | | | |
|------------------|---------------------|-------|--------------------|------|
| Komponenter | Grunnlag | Verdi | Kontrollparametrer | Nota |
| Sodium Hydroxide | FOR-2011-12-06-1358 | T | 2 mg/m3 | |

MK

| | | | | |
|------------------|--------|----------|----------------------|--|
| Съставки | Основа | Стойност | Параметри на контрол | Бележка |
| Sodium Hydroxide | MK OEL | MV | 2 mg/m3 | Inhalable fraction - the part of the total suspended material that is inhaled by the employees |

LV

| | | | | |
|------------------|--------|----------|-----------------------|---------|
| Sastāvdaļas | Bāze | Vērtība | Pārvaldības parametri | Piezīme |
| Sodium Hydroxide | LV OEL | AER 8 st | 0,5 mg/m3 | |

LT

| | | | | |
|------------------|----------|-------|----------------------|---------|
| Komponentai | Šaltinis | Vertė | Kontrolės parametrai | Pastaba |
| Sodium Hydroxide | LT OEL | NRD | 2 mg/m3 | |

IS

| | | | | |
|------------------|----------|-------|--------------------|------|
| Komponenter | Grunnlag | Verdi | Kontrollparametrer | Nota |
| Sodium Hydroxide | IS OEL | STEL | 2 mg/m3 | |

IE

| | | | | |
|------------------|--------|----------------------|--------------------|------|
| Components | Basis | Value | Control parameters | Note |
| Sodium Hydroxide | IE OEL | OELV - 15 min (STEL) | 2 mg/m3 | |

HU

| | | | | |
|------------------|--------|----------|-------------------------|------------|
| Komponensek | Bázis | Érték | Ellenőrzési paraméterek | Megjegyzés |
| Sodium Hydroxide | HU OEL | AK-érték | 1 mg/m3 | N, m, |
| | HU OEL | CK-érték | 2 mg/m3 | N, m, |

m Maró hatású anyag (felmarja a bőrt, nyálkahártyát, szemet vagy mindhármat)
N Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok. Korrekció NEM szükséges.

HR

| | | | | |
|------------------|--------|------------|--------------------|----------|
| Sastojci | Temelj | Vrijednost | Nadzorni parametri | Bilješka |
| Sodium Hydroxide | HR OEL | KGVI | 2 mg/m3 | |

GR

| | | | | |
|------------------|--------|------|--------------------|----------|
| Συστατικά | Βάση | Τιμή | Παράμετροι ελέγχου | Σημείωση |
| Sodium Hydroxide | GR OEL | TWA | 2 mg/m3 | |
| | GR OEL | STEL | 2 mg/m3 | |

GB

| | | | | |
|------------------|---------|-------|--------------------|------|
| Components | Basis | Value | Control parameters | Note |
| Sodium Hydroxide | GB EH40 | STEL | 2 mg/m3 | |

FR

| | | | | |
|------------------|--------|--------|------------------------|------------------------------|
| Composants | Base | Valeur | Paramètres de contrôle | Note |
| Sodium Hydroxide | FR VLE | VME | 2 mg/m3 | Valeurs limites indicatives, |

Valeurs limites Valeurs limites indicatives

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indicatives

FI

| Aineosat | Peruste | Arvo | Valvontaa koskevat muuttujat | Huomautus |
|------------------|---------|------|------------------------------|-----------|
| Sodium Hydroxide | FI OEL | CEIL | 2 mg/m3 | |

ES

| Componentes | Base | Valor | Parámetros de control | Nota |
|------------------|--------|--------|-----------------------|------|
| Sodium Hydroxide | ES VLA | VLA-EC | 2 mg/m3 | |

EE

| Komponendid, osad | Alused | Väärtus | Kontrolliparameetrid | Märkused |
|-------------------|--------|---------------------------------|----------------------|----------|
| Sodium Hydroxide | EE OEL | Piirnorm | 1 mg/m3 | |
| | EE OEL | Lühiajalise kokkupuute piirnorm | 2 mg/m3 | |

DK

| Komponenter | Basis | Værdi | Kontrolparametre | Note |
|------------------|--------|-------|------------------|------|
| Sodium Hydroxide | DK OEL | L | 2 mg/m3 | |

CZ

| Složky | Základ | Hodnota | Kontrolní parametry | Poznámka |
|------------------|--------|---------|---------------------|----------|
| Sodium Hydroxide | CZ OEL | PEL | 1 mg/m3 | I, |
| | CZ OEL | NPK-P | 2 mg/m3 | I, |

I dráždí sliznice (oči, dýchací cesty), respektive kůži

CY

| Συστατικά | Βάση | Τιμή | Παράμετροι ελέγχου | Σημείωση |
|------------------|----------|--------|--------------------|----------|
| Sodium Hydroxide | CY OEL 2 | M.E.Σ. | 2 mg/m3 | |

CH

| Inhaltsstoffe | Grundlage | Wert | Zu überwachende Parameter | Bemerkung |
|------------------|-----------|----------|---------------------------|--------------------------------------|
| Sodium Hydroxide | CH SUVA | MAK-Wert | 2 mg/m3 | NIOSH, OSHA, SSc, einatembarer Staub |
| | CH SUVA | KZGW | 2 mg/m3 | NIOSH, OSHA, SSc, einatembarer Staub |

NIOSH National Institute for Occupational Safety and Health

OSHA Occupational Safety and Health Administration

SSc Eine Schädigung der Leibesfrucht braucht bei Einhaltung des MAK-Wertes nicht befürchtet zu werden.

BG

| Съставки | Основа | Стойност | Параметри на контрол | Бележка |
|------------------|--------|----------|----------------------|---------|
| Sodium Hydroxide | BG OEL | TWA | 2 mg/m3 | |

BE

| Bestanddelen | Basis | Waarde | Controleparameters | Opmerking |
|------------------|--------|----------|--------------------|-----------|
| Sodium Hydroxide | BE OEL | TGG 8 hr | 2 mg/m3 | |

AT

| Inhaltsstoffe | Grundlage | Wert | Zu überwachende Parameter | Bemerkung |
|------------------|-----------|---------|---------------------------|----------------------|
| Sodium Hydroxide | AT OEL | MAK-TMW | 2 mg/m3 | einatembare Fraktion |
| | AT OEL | MAK-KZW | 4 mg/m3 | einatembare Fraktion |

8.2**Exposure controls
Engineering measures**

Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

Respiratory protection : If ventilation or other engineering controls are not adequate to

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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. Air-Purifying Respirator for Dusts and Mists / P100. 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**9.1****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)
 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

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| | |
|--|--------------------------------|
| Molecular formula | : CH ₃ SNa |
| 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 at 24°C (75°F) |
| Relative density | : No data available |
| Density | : 1,138 G/ML 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 (Air = 1.0) |
| Evaporation rate | : No data available |
| Percent volatile | : 79 % |

9.2**Other information**

Conductivity : No data available

SECTION 10: Stability and reactivity**10.1****Reactivity** : Stable under recommended storage conditions.**10.2****Chemical stability** : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.**10.3****Possibility of hazardous reactions****Hazardous reactions** : Hazardous reactions: Hazardous polymerization does not occur., Vapors may form explosive mixture with air.

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Further information: No decomposition if stored and applied as directed.

10.4

Conditions to avoid : Heat, flames and sparks.

10.5

Materials to avoid : May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Thermal decomposition : No data available

10.6

Hazardous decomposition products : Sulfur oxides

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

SECTION 11: Toxicological information**11.1****Information on toxicological effects****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

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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
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 473
 Result: Ambiguous

Sodium Hydroxide : Test Type: Ames test
 Result: negative

Test Type: DNA damage and repair assay
 Result: negative

Test Type: Mammalian cell gene mutation assay
 Result: positive

Genotoxicity in vivo

Sodium Methanethiolate : Test Type: Micronucleus test
 Species: Mouse
 Cell type: Bone marrow

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Route of Application: Oral
 Method: OECD Test Guideline 474
 Result: negative

Sodium Hydroxide

Test Type: Mouse micronucleus assay
 Result: negative

Reproductive toxicity

Sodium Methanethiolate

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

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

**Sodium Methyl Mercaptide
 Aspiration toxicity**

: No aspiration toxicity classification.

11.2

Information on other hazards

**Sodium Methyl Mercaptide
 Further information**

Endocrine disrupting properties

: Solvents may degrease the skin.
 : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1

Toxicity**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

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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

12.2**Persistence and degradability**

Biodegradability

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

12.3**Bioaccumulative potential**

Bioaccumulation

Sodium Methanethiolate : This material is not expected to bioaccumulate.

12.4**Mobility in soil**

Mobility

Sodium Methanethiolate : No data available

12.5**Results of PBT and vPvB assessment**

Results of PBT assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6**Endocrine disrupting properties**

Endocrine disrupting properties : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7

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Other adverse effects

Additional ecological information : Toxic to aquatic life.

12.8**Additional Information****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**13.1****Waste treatment methods**

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**14.1 - 14.7****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)

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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****15.1****Safety, health and environmental regulations/legislation specific for the substance or mixture
National legislation**

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Water hazard class (Germany) : WGK 1 slightly water endangering**15.2****Major Accident Hazard Legislation** : 96/82/EC Update: 2003
Highly flammable
7bQuantity 1: 5.000 t
Quantity 2: 50.000 t: ZEU_SEVES3 Update:
FLAMMABLE LIQUIDS
P5cQuantity 1: 5.000 t
Quantity 2: 50.000 t

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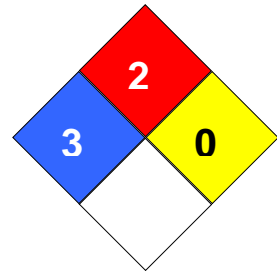
Revision Date 2023-08-14

Notification status

| | | |
|-------------------------------------|---|---|
| Europe REACH | : | Not in compliance with the inventory |
| Switzerland CH INV | : | On the inventory, or in compliance with the inventory |
| United States of America (USA) TSCA | : | On or in compliance with the active portion of the TSCA inventory |
| Canada NDSL | : | On the inventory, or in compliance with the inventory |
| Other AICS | : | 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 |
| 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 |
| China IECSC | : | On the inventory, or in compliance with the inventory |
| Taiwan TCSI | : | On the inventory, or in compliance with the inventory |

SECTION 16: Other information

NFPA Classification : Health Hazard: 3
Fire Hazard: 2
Reactivity Hazard: 0

**Further information**

Legacy SDS Number : 681520

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 |

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| | | | |
|--------|--|-------|--|
| 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 |

Full text of H-Statements referred to under sections 2 and 3.

| | |
|------|--|
| H226 | Flammable liquid and vapor. |
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |