SAFETY DATA SHEET

Sodium Methyl Mercaptide
Version 1.11

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

Product information
Product Name: Sodium Methyl Mercaptide
Material: 1114147, 1114146, 1114145, 1065936, 1066239, 1030037, 1029154, 1029192, 1034903
Use: Chemical intermediate
Company: Chevron Phillips Chemical Company LP
Specialty Chemicals
10001 Six Pines Drive
The Woodlands, TX 77380

Emergency telephone:
Health: 866.442.9628 (North America)
1.832.813.4984 (International)
Transport:
North America: CHEMTREC 800.424.9300 or 703.527.3887
Asia: +800 CHEMCALL (+800 2436 2255) China:+86-21-22157316
EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Responsible Department: Product Safety and Toxicology Group
E-mail address: SDS@CPChem.com
Website: www.CPChem.com

SECTION 2: Hazards identification

Classification of the substance or mixture
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.

Emergency Overview

Danger
Form: Liquid   Physical state: Liquid   Color: Colorless   Odor: Pungent
OSHA Hazards: Flammable Liquid, Toxic by ingestion, Corrosive to skin, Corrosive to eyes

Classification:
Flammable liquids, Category 2
Acute toxicity, Category 4, Oral

MSDS Number: 100000013985
Sodium Methyl Mercaptide

Skin corrosion, Category 1A
Serious eye damage, Category 1

Labeling

Symbol(s): 

Signal Word: Danger

Hazard Statements:
- H226: Flammable liquid and vapor.
- H302: Harmful if swallowed.
- H314: Causes severe skin burns and eye damage.

Precautionary Statements:

Prevention:
- P210 Keep away from heat/sparks/open flames/hot surfaces.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:
- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P363 Wash contaminated clothing before reuse.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:
- P403 + P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

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

Carcinogenicity:

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

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

SECTION 3: Composition/information on ingredients

Synonyms:
Methanethiol sodium salt
Sodium methanethiolate
SMM
Sodium methyl mercaptide 21%

Molecular formula: CH3SNa

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Methanethiolate</td>
<td>5188-07-8</td>
<td>20 - 25</td>
</tr>
<tr>
<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
<td>0.4 - 1</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

General advice: Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance.

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

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

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

If swallowed: Keep respiratory tract clear. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.

SECTION 5: Firefighting measures

Flash point: 29 °C (84 °F)
Method: Tag closed cup
Autoignition temperature: No data available

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| Suitable extinguishing media | Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical. |
| Unsuitable extinguishing media | High volume water jet. |
| Specific hazards during fire fighting | Do not allow run-off from fire fighting to enter drains or water courses. |
| Special protective equipment for fire-fighters | Wear self-contained breathing apparatus for firefighting if necessary. |
| Further information | Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers. |
| Fire and explosion protection | Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. 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. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. |
| Environmental precautions | Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods for cleaning up | Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). |

### SECTION 7: Handling and storage

**Handling**

| Advice on safe handling | Avoid formation of aerosol. Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with |

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Advice on protection against fire and explosion: Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Storage

Requirements for storage areas and containers: No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection

Engineering measures

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: Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, 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. Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear as appropriate: Flame retardant antistatic protective clothing. Rubber apron. Complete head face and neck
Hygiene measures: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance
Form: Liquid
Physical state: Liquid
Color: Colorless
Odor: Pungent

Safety data
Flash point: 29 °C (84 °F)
Method: Tag closed cup
Lower explosion limit: No data available
Upper explosion limit: No data available
Oxidizing properties: no
Autoignition temperature: No data available
Thermal decomposition: No data available
Molecular formula: CH3SNa
Molecular weight: 70.08 g/mol
pH: > 10
Pour point: No data available
Boiling point/boiling range: Not applicable, Decomposes
Vapor pressure: 20.00 MMHG
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 %

SECTION 10: Stability and reactivity

Chemical stability : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Possibility of hazardous reactions
Conditions to avoid : Heat, flames and sparks.
Materials to avoid : May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Thermal decomposition : No data available
Hazardous decomposition products : Sulfur oxides
Other data : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Sodium Methyl Mercaptide
Acute oral toxicity : LD50 Oral: 414.29 mg/kg
               Species: rat
               Method: Acute toxicity estimate

Sodium Methyl Mercaptide
Acute inhalation toxicity : No data available

Sodium Methyl Mercaptide
Acute dermal toxicity : No data available

Sodium Methyl Mercaptide
Skin irritation : Extremely corrosive and destructive to tissue. Information refers to the main ingredient.

Sodium Methyl Mercaptide
Eye irritation : May cause irreversible eye damage. Information refers to the main ingredient.

Sodium Methyl Mercaptide
Sensitization : Contains no substance or substances classified as sensitizing.

Repeated dose toxicity
Sodium Methanethiolate : Species: rat
Application Route: Inhalation
Dose: 2, 17, 57 ppm
Exposure time: 3 mo
Number of exposures: 7 h/d, 5 d/wk
NOEL: 17 ppm
Lowest observable effect level: 57 ppm

Reproductive toxicity
Sodium Methanethiolate:
Species: rat
Sex: male
Application Route: oral gavage
Dose: 5, 15, 45 mg/kg
Number of exposures: daily
Test period: 4 wks premating, mating and...
NOAEL Parent: > 45 mg/kg

Species: rat
Sex: female
Application Route: oral gavage
Dose: 5, 15, 45 mg/kg
Number of exposures: daily
Test period: 4 wks premating, mating and...
NOAEL Parent: > 45 mg/kg

Sodium Methyl Mercaptide
Aspiration toxicity: No aspiration toxicity classification.

Further information
Sodium Hydroxide: No data available.

SECTION 12: Ecological information

Toxicity to fish
Sodium Methanethiolate:
LC50: 1.8 mg/l
Exposure time: 96 h
Species: Danio rerio (Zebra Fish)
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates
Sodium Methanethiolate:
EC50: 1.32 - 2.46 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202

Toxicity to algae
Sodium Methanethiolate:
ErC50: 15 mg/l
Exposure time: 72 h
Species: Pseudokirchneriella subcapitata (green algae)
Method: OECD Test Guideline 201
# Sodium Methyl Mercaptide

**Biodegradability**

Sodium Methanethiolate : aerobic  
64 %  
Testing period: 28 d  
Method: OECD Test Guideline 301D  
Readily biodegradable, according to appropriate OECD test.

**Ecotoxicology Assessment**

**Acute aquatic toxicity**
Sodium Methanethiolate : Toxic to aquatic life.

**Chronic aquatic toxicity**
Sodium Methanethiolate : Toxic to aquatic life with long lasting effects.

**Additional ecological information**
Sodium Methanethiolate : Toxic to aquatic life.

## 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**
Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

**Contaminated packaging**
Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14: Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

**US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)**
UN2920, CORROSIVE LIQUIDS, FLAMMABLE, N.O.S., (SODIUM METHANETHIOLATE), 8 (3), I

**IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**
MSDS Number: 100000013985
Sodium Methyl Mercaptide

Version 1.11

UN2920, CORROSIVE LIQUID, FLAMMABLE, N.O.S., (SODIUM METHANETHIOLATE), 8 (3), I, (29 °C)

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

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

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

National legislation

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO – KNOW

CERCLA Reportable Quantity : Calculated RQ exceeds reasonably attainable upper limit.
Sodium Hydroxide

SARA 302 Reportable Quantity : This material does not contain any components with a SARA 302 RQ.

SARA 302 Threshold Planning Quantity : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 Reportable Quantity : This material does not contain any components with a section 304 EHS RQ.
# Sodium Methyl Mercaptide

## Version 1.11

**Revision Date** 2015-02-24

<table>
<thead>
<tr>
<th>SARA 313 Ingredients</th>
<th>SARA 313: 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.</th>
</tr>
</thead>
</table>

### 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**

| Sodium Hydroxide - 1310-73-2 |

**New Jersey Right To Know**

| Sodium Hydroxide - 1310-73-2 |

**California Prop. 65 Ingredients**

| This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects. |

### Notification status

**Europe REACH**

| On the inventory, or in compliance with the inventory |

**United States of America TSCA**

| On the inventory, or in compliance with the inventory |

**Canada NDSL**

| On the inventory, or in compliance with the inventory |

**Australia AICS**

| Not in compliance with the inventory |

**New Zealand NZIoC**

| On the inventory, or in compliance with the inventory |

**Japan ENCS**

| On the inventory, or in compliance with the inventory |

**Korea KECI**

| On the inventory, or in compliance with the inventory |

**Philippines PICCS**

| On the inventory, or in compliance with the inventory |

**China IECSC**

| On the inventory, or in compliance with the inventory |
Sodium Methyl Mercaptide

NFPA Classification:
- Health Hazard: 3
- Fire Hazard: 3
- 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:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Government Industrial Hygienists</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal Dose 50%</td>
</tr>
<tr>
<td>AICS</td>
<td>Australia, Inventory of Chemical Substances</td>
</tr>
<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>DSL</td>
<td>Canada, Domestic Substances List</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Agency</td>
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<tr>
<td>NDSL</td>
<td>Canada, Non-Domestic Substances List</td>
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<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety &amp; Health</td>
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<tr>
<td>CNS</td>
<td>Central Nervous System</td>
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<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstract Service</td>
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<tr>
<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
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<td>EC50</td>
<td>Effective Concentration</td>
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<td>EGEST</td>
<td>EOSCA Generic Exposure Scenario Tool</td>
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<td>EOSCA</td>
<td>European Oilfield Specialty Chemicals Association</td>
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<td>PEL</td>
<td>Permissible Exposure Limit</td>
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<td>Philippines Inventory of Commercial Chemical Substances</td>
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<td>MAK</td>
<td>Germany Maximum Concentration Values</td>
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<td>PRNT</td>
<td>Presumed Not Toxic</td>
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<td>Globally Harmonized System</td>
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<td>RCRA</td>
<td>Resource Conservation Recovery Act</td>
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<td>Greater Than or Equal To</td>
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<td>STEL</td>
<td>Short-term Exposure Limit</td>
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<td>IC50</td>
<td>Inhibition Concentration 50%</td>
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<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act.</td>
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<td>IARC</td>
<td>International Agency for Research on Cancer</td>
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<td>Threshold Limit Value</td>
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<td>Inventory of Existing Chemical</td>
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<td>Time Weighted Average</td>
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<td>Substances in China</td>
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<td>Japan, Inventory of Existing and New Chemical Substances</td>
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<td>Korea, Existing Chemical Inventory</td>
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<td>Lethal Concentration 50%</td>
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**SAFETY DATA SHEET**

**Sodium Methyl Mercaptide**

**Version 1.11**

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**MSDS Number: 100000013985**

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