

**Sodium Methyl Mercaptide**

Version 1.10

Revision Date 2016-06-03

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

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
Technical Information: (832) 813-4862
Responsible Party: Product Safety Group
Email:sds@cpchem.com

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: +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
REGULATION (EC) No 1272/2008

Sodium Methyl Mercaptide

Version 1.10

Revision Date 2016-06-03

Flammable liquids, Category 3

H226:

Flammable liquid and vapor.

Acute toxicity, Category 4

H302:

Harmful if swallowed.

Skin corrosion, Category 1A

H314:

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation,
Category 1

H318:

Causes serious eye damage.

Label elements**Labeling (REGULATION (EC) No 1272/2008)**

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/sparks/open flames/hot surfaces. No smoking.

P280

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

Response:

P303 + P361 + P353

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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/doctor.

P370 + P378

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Hazardous ingredients which must be listed on the label:

- 5188-07-8 Sodium Methanethiolate

SECTION 3: Composition/information on ingredients

Synonyms

:

Methanethiol sodium salt
Sodium methanethiolate
SMM
Sodium methyl mercaptide 21%

Molecular formula

:

CH₃SNa

Sodium Methyl Mercaptide

Version 1.10

Revision Date 2016-06-03

Mixtures**Hazardous ingredients**

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
Sodium Methanethiolate	5188-07-8 225-969-9	Flam. Sol. 1; H228 Acute Tox. 3; H301 Skin Corr. 1A; H314 Aquatic Chronic 2; H411	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

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
Suitable extinguishing media	: Alcohol-resistant foam. Carbon dioxide (CO ₂). Dry chemical.
Unsuitable extinguishing media	: High volume water jet.

Sodium Methyl Mercaptide

Version 1.10

Revision Date 2016-06-03

- 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 local and national regulations.
- 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,

Sodium Methyl Mercaptide

Version 1.10

Revision Date 2016-06-03

hot surfaces and sources of ignition.

Storage

Requirements for storage : 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**Ingredients with workplace control parameters****SK**

Zložka	Podstata	Hodnota	Kontrolné parametre	Poznámka
Sodium Hydroxide	SK OEL	NPEL priemerný	2 mg/m3	

SI

Sestavine	Osnova	Vrednost	Parametri nadzora	Pripomba
Sodium Hydroxide	SI OEL	MV	2 mg/m3	I, Y, Inhalabilna frakcija

I Inhalabilna frakcija - del celotne suspendirane snovi, ki jo delavec vdihne

Y Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in BAT vrednosti.

SE

Beståndsdelar	Grundval	Värde	Kontrollparametrar	Anmärkning
Sodium Hydroxide	SE AFS	NGV	1 mg/m3	Inhalerbar
	SE AFS	TGV	2 mg/m3	Inhalerbar
	SE AFS	NGV	1 mg/m3	inhalabelt damm
	SE AFS	TGV	2 mg/m3	inhalabelt damm

RO

Componente	Bază	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	irritação do TRS,

irritação do trato respiratório superior
TRS**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	Kontrollparametere	Nota
Sodium Hydroxide	FOR-2011-12-06-1358	T	2 mg/m3	T,

T Takverdi er en øyeblikksverdi som angir maksimalkonsentrasjon av et kjemisk stoff i pustesonen som ikke skal overskrides.

LV

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

LT

Komponentai	Pagrindas, bazė	Vertė	Kontrolės parametrai	Pastaba
Sodium Hydroxide	LT OEL	NRD	2 mg/m3	Ū,

Ū ūmus poveikis

IE

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

HU

Komponensek	Bázis	Érték	Ellenőrzési	Megjegyzés
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Sodium Methyl Mercaptide

Version 1.10

Revision Date 2016-06-03

			paraméterek	
Sodium Hydroxide	HU OEL	AK-érték	2 mg/m3	m,
	HU OEL	CK-érték	2 mg/m3	m,

m Maró hatású anyag (felmarja a bőrt, nyálkahártyát, szemet vagy mindhármat)

GR

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

GB

Ingredients	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	normal,

normal Valeurs limites 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	Piirnormi lagi	2 mg/m3	*

* Piirnormi lagi - kiiresti toimivate ainete lubatud pidev maksimaalne sisaldus õhus 15 minuti jooksul, ammoniaagi ja isotsüanaadi puhul 5 minuti jooksul

DK

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

L Markerer, at grænseværdien er en loftværdi, som ikke på noget tidspunkt må overskrides.

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) resp. kůže

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, einatembare Staub
	CH SUVA	KZGW	2 mg/m3	NIOSH, OSHA, SSC, einatembare 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	CEIL	2 mg/m3	M,

M Bij blootstelling boven de grenswaarde treedt irritatie op of bestaat er gevaar voor acute vergiftiging. Het werkprocédé moet zo ontworpen zijn dat de blootstelling de grenswaarde nooit overschrijdt. Bij een controle geldt dat de bemonsterde periode zo kort mogelijk moet zijn om een betrouwbare meting te kunnen verrichten. Het meetresultaat wordt dan gerelateerd aan de beschouwde periode

AT

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
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SDS Number:100000013985

6/14

Sodium Methyl Mercaptide

Version 1.10

Revision Date 2016-06-03

Sodium Hydroxide	AT OEL	TMW	2 mg/m3	einatembare Fraktion
	AT OEL	KZW	4 mg/m3	einatembare Fraktion

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 protection. Footwear protecting against chemicals.
- Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties****Appearance**

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

Safety data

- Flash point : 29 °C (84 °F)

Sodium Methyl Mercaptide

Version 1.10

Revision Date 2016-06-03

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	: 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 %

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.

Sodium Methyl Mercaptide

Version 1.10

Revision Date 2016-06-03

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 pre mating, mating and...
NOAEL Parent: > 45 mg/kg

Sodium Methyl Mercaptide

Version 1.10

Revision Date 2016-06-03

Species: Rat
 Sex: female
 Application Route: oral gavage
 Dose: 5, 15, 45 mg/kg
 Number of exposures: daily
 Test period: 4 wks pre mating, 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

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.

Sodium Methyl Mercaptide

Version 1.10

Revision Date 2016-06-03

Additional ecological information : 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)

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

Sodium Methyl Mercaptide

Version 1.10

Revision Date 2016-06-03

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**

Major Accident Hazard Legislation : 96/82/EC Update: 2003
 Highly flammable
 7b
 Quantity 1: 5.000 t
 Quantity 2: 50.000 t

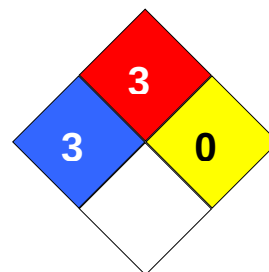
Water contaminating class (Germany) : WGK 1 slightly water endangering

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

SECTION 16: Other information

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.

Sodium Methyl Mercaptide

Version 1.10

Revision Date 2016-06-03

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%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

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

H226	Flammable liquid and vapor.
H228	Flammable solid.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.

Sodium Methyl Mercaptide

Version 1.10

Revision Date 2016-06-03