Sodium Methyl Mercaptide

Version 1.13 Revision Date 2025-06-12

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 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 Supported : Use as an intermediate

1.3

Details of the supplier of the safety data sheet

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

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)
South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
Argentina: +(54)-1159839431
EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)
Belgium: 070 245 245 (24 hours/day, 7 days/week)
Bulgaria: +359 2 9154 233

Croatia: +3851 2348 342 (24 hours/day, 7 days/week)
Cyprus: 1401
Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402
Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212
Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
Finland: 0800 147 111 09 471 977 (24 hours/day)
France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)
Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
Greece: (0030) 2107793777 (24 hours/day, 7 days/week)
Hungary: +36-80-201-199 (24 hours/day, 7 days/week)
Iceland: 543 2222 (24 hours/day, 7 days/week)
Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
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

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)

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.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
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

Synonyms : Methanethiol sodium salt
SMM
Sodium methanethiolate
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

Treatment : No data available.

SECTION 5: Firefighting measures

Flash 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.

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/m3	

SE

Beståndsdelar	Grundval	Värde	Kontrollparametrar	Anmärkning
Sodium Hydroxide	AFS 2023:14	NGV	1 mg/m3	Inhalerbart
	AFS 2023:14	TGV	2 mg/m3	Inhalerbart
	AFS 2023:14	NGV	1 mg/m3	inhalabel fraktion
	AFS 2023:14	KGV	2 mg/m3	inhalabel fraktion

RU

Компоненты	Основа	Величина	Параметры контроля	Заметка
Гидроксид натрия	RU OEL	ПДК разовая	0,5 mg/m3	2, Аэрозоль
	RU OEL	ПДК разовая	0,5 mg/m3	2, Аэрозоль
	РФ ПДК	ПДК разовая	0,5 mg/m3	2, +, аэрозоль

\+ вещества, при работе с которыми требуется специальная защита кожи и глаз
2 2 класс - высокоопасные

RO

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

PT

Componentes	Base	Valor	Parâmetros de controle	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	Kontroles parametri	Piezīme
Sodium Hydroxide	LV OEL	AER 8 st	0,5 mg/m3	

LT

Komponentai	Šaltinis	Verté	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 admises (circulaires),

Valeurs limites admises (circulaires) Valeurs limites admises (circulaires)

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

Personal protective equipment

Respiratory protection	:	If ventilation or other engineering controls are not adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. Air-Purifying Respirator for Organic Vapors. 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
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 %

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.

Hazardous reactions: Vapors may form explosive mixture with air.

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
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 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 premating, 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 premating, 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 : Solvents may degrease the skin.
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 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

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

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)

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 hazardous to water

15.2

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

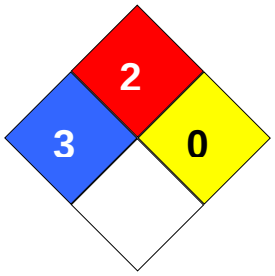
: ZEU_SEVES3 Update:
FLAMMABLE LIQUIDS
P5c
Quantity 1: 5.000 t
Quantity 2: 50.000 t

Notification status

Europe REACH	:	Not in compliance with the inventory
Switzerland CH INV	:	Not 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	:	None of the components of this product are on the Canadian DSL, but all are on the NDSL
Australia AIIC	:	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
Japan ISHL	:	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
Taiwan TCSI	:	On the inventory, or in compliance with the inventory
China IECSC	:	On the inventory, or in compliance with the inventory
Other TECI	:	Not in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 3
Fire Hazard: 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
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.