

Version 1.1 Revision Date 2015-02-24

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

**Product information** 

Product Name : Sodium Methyl Mercaptide 27% Material : 1114497, 1114496, 1114495

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
Skin corrosion, Category 1A

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Serious eye damage, Category 1

#### Labeling

Symbol(s) :







Signal Word : Danger

Hazard Statements : H225: Highly 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.

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

human carcinogen by IARC.

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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

Molecular formula : CH3SNa

Component	CAS-No.	Weight %
Sodium Methanethiolate	5188-07-8	26 - 28
Sodium Hydroxide	1310-73-2	0 - 1.2

## **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 : 16 °C (61 °F)

Method: Tag closed cup

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Autoignition temperature : No data available

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

Avoid formation of aerosol. Do not breathe vapors/dust. Avoid Advice on safe handling

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

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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, 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**

#### Ingredients with workplace control parameters

#### US

١	Ingredients	Basis	Value	Control parameters	Note
l	Sodium Hydroxide	ACGIH	С	2 mg/m3	
l		OSHA Z-1	TWA	2 mg/m3	
١		OSHA Z-1-A	С	2 mg/m3	

## Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Sodium Hydroxide	1310-73-2	Immediately Dangerous to Life or Health Concentration Value 10 milligram per cubic meter	1995-03-01

## **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.

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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 : 16 °C (61 °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

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Vapor pressure : 45.00 MMHG

at 29 °C (84 °F)

Relative density : No data available

Density : 1.146 G/ML

at 30 °C (86 °F)

Water solubility : Soluble

Partition coefficient: n-

: No data available

octanol/water

Viscosity, kinematic : No data available

Relative vapor density : 1

(Air = 1.0)

Evaporation rate : No data available

Percent volatile : 73 %

## **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**

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Acute oral toxicity : LD50 Oral: 414.29 mg/kg

Species: rat

Method: Acute toxicity estimate

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**Skin irritation** : Extremely corrosive and destructive to tissue. Information

refers to the main ingredient.

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**Sodium Methyl Mercaptide 27%** 

**Eye irritation**: May cause irreversible eye damage. Information refers to the

main ingredient.

**Sodium Methyl Mercaptide 27%** 

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 27%** 

**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

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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.

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

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bill of lading.

## **US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)**

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#### IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN2920, CORROSIVE LIQUID, FLAMMABLE, N.O.S., (SODIUM METHANETHIOLATE), 8 (3), I, (16 °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** 

: Calculated RQ exceeds reasonably attainable upper limit.

Quantity

Sodium Hydroxide

SARA 302 Reportable

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

Quantity

oz reg.

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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.

SARA 313 Ingredients : 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.

#### Clean Air Act

Potential

Ozone-Depletion : 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 On the inventory, or in compliance with the inventory United States of America TSCA

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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.

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.

ACGIH American Conference of Government Industrial Hygienists  AICS Australia, Inventory of Chemical Substances  DSL Canada, Domestic Substances List  NDSL Canada, Non-Domestic Substances Substances List  NDSL Canada, Non-Domestic Substances Substances List  NOSH National Institute for Occupational Safety & Health  CNS Central Nervous System  CAS Chemical Abstract Service  NZIOC New Zealand Inventory of Chemicals  EC50 Effective Concentration  EC50 Effective Concentration NOAEL  EC50 Effective Concentration So%  NOEC No Observed Effect Concentration  EGEST EOSCA Generic Exposure Scenario Tool  EOSCA European Oilfield Specialty Chemicals Association  EINECS European Inventory of Existing Commercial Chemical Substances  MAK Germany Maximum Concentration PRNT Presumed Not Toxic	Key or legend to abbreviations and acronyms used in the safety data sheet			
Substances  DSL Canada, Domestic Substances List  NDSL Canada, Non-Domestic Substances List  CNS Central Nervous System CAS Chemical Abstract Service EC50 Effective Concentration EGEST EOSCA Generic Exposure Schemicals  Substances  NFPA National Fire Protection Agency NIOSH National Institute for Occupational Safety & Health National Toxicology Program NTP National Toxicology Program NEW New Zealand Inventory of Chemicals NO Observable Adverse Effect Level NO Observable Adverse Effect Level NO Observed Effect Concentration OSHA Scenario Tool Scenario Tool  EOSCA European Oilfield Specialty Chemicals Association  EINECS European Inventory of Existing Chemical Substances  NEPA National Fire Protection Agency National Fire Protection Agency National Institute for Occupational Safety & Health Administration Permissible Exposure Limit Chemical Substances	ACGIH		LD50	Lethal Dose 50%
List	AICS		LOAEL	
Substances List  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 EOSCA European Oilfield Specialty Chemicals Association  EINECS European Inventory of Existing Chemical Substances  Safety & Health National Toxicology Program NOEC No Observable Adverse Effect Level No Observed Effect Concentration Occupational Safety & Health Administration Permissible Exposure Limit Chemical Substances	DSL		NFPA	National Fire Protection Agency
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 OSHA Occupational Safety & Health Administration  EOSCA European Oilfield Specialty Chemicals Association  EINECS European Inventory of Existing Chemical Substances  NOAEL No Observable Adverse Effect Level	NDSL		NIOSH	·
EC50 Effective Concentration NOAEL No Observable Adverse Effect Level  EC50 Effective Concentration 50% NOEC No Observed Effect Concentration  EGEST EOSCA Generic Exposure OSHA Occupational Safety & Health Administration  EOSCA European Oilfield Specialty Chemicals Association  EINECS European Inventory of Existing Chemical Substances  Chemical Substances  Chemical Substances	CNS	Central Nervous System	NTP	National Toxicology Program
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EGEST EOSCA Generic Exposure Scenario Tool OSHA Occupational Safety & Health Administration  EOSCA European Oilfield Specialty Chemicals Association  EINECS European Inventory of Existing Chemical Substances  PEL Permissible Exposure Limit Permissible Exposure Lim	EC50	Effective Concentration	NOAEL	
Scenario Tool Administration  EOSCA European Oilfield Specialty Chemicals Association  EINECS European Inventory of Existing Chemical Substances  PEL Permissible Exposure Limit Permissible Exposure Limit Permissible Exposure Limit Philippines Inventory of Commercial Chemical Substances	EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
Chemicals Association  EINECS European Inventory of Existing PICCS Philippines Inventory of Chemical Substances  Chemical Substances  Chemical Substances	EGEST	•	OSHA	
Chemical Substances Commercial Chemical Substances	EOSCA		PEL	Permissible Exposure Limit
MAK Germany Maximum Concentration   PRNT   Presumed Not Toxic	EINECS		PICCS	
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	Values		
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%		