

Version 1.8 Revision Date 2020-06-16

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

**Product information** 

Product Name : Ethyl Mercaptan

Material : 1118972, 1111485, 1024772, 1086422, 1086423, 1021429,

1021431, 1021426, 1021430, 1021425, 1021424, 1024773, 1024771, 1024770, 1021427, 1026776, 1021428, 1104918

: Chevron Phillips Chemical Company LP Company

> 10001 Six Pines Drive The Woodlands, TX 77380

: See Company Address Local

## **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 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

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

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 GHS Classification and labelling according to JIS Z 7252-2019 and JIS Z 7253-2019 (GHS 2015)

Classification

: Flammable liquids, Category 1 Acute toxicity, Category 4, Oral Acute toxicity, Category 4, Inhalation Serious eve damage/eye irritation, Category 2

Skin sensitization, Sub-category 1B

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Specific target organ toxicity - single exposure, Category 1,

Central nervous system

Specific target organ toxicity - single exposure, Category 3,

Respiratory tract irritation

Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1

#### Labeling

Symbol(s) :









Signal Word : Danger

Hazard Statements : H224: Extremely flammable liquid and vapor.

H302 + H332: Harmful if swallowed or if inhaled.

H317: May cause an allergic skin reaction. H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H370: Causes damage to organs (Central nervous system). H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements : Prevention:

P210: Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment. P241: Use explosion-proof electrical/ ventilating/ lighting/

equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

P260: Do not breathe dust/fume/gas/mist/vapor/spray.

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear protective gloves/ eye protection/ face protection.

Response:

P301 + P312 + P330: IF SWALLOWED: Call a POISON

CENTER/ doctor if you feel unwell. Rinse mouth.

P303 + P361 + P353: IF ON SKIN (or hair): Take off

immediately all contaminated clothing. Rinse skin with water.

P312: Call a POISON CENTER or doctor/ physician if you feel unwell.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P311: IF exposed or concerned: Call a POISON CENTER/ doctor.

P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313: If eye irritation persists: Get medical advice/attention.

P362 + P364: Take off contaminated clothing and wash it before reuse.

P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P391: Collect spillage.

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Storage:

P403 + P233: Store in a well-ventilated place. Keep container

tightly closed.

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.

## **SECTION 3: Composition/information on ingredients**

Synonyms : ETSH

Ethanethiol Ethyl Mercaptan

Molecular formula : C2H6S

Chemical name	CAS-No.	Concentration	ENCS/ISHL
			number
Ethyl Mercaptan	75-08-1	99%	2-460

#### **SECTION 4: First aid measures**

General advice : Move out of dangerous area. Show this material safety data

sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

If inhaled : If unconscious, place in recovery position and seek medical

advice. If symptoms persist, call a physician.

In case of skin contact : If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Flush eyes with water as a precaution. 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. If symptoms persist, call a physician.

Take victim immediately to hospital.

## **SECTION 5: Firefighting measures**

Flash point :  $-48^{\circ}$ C ( $-54^{\circ}$ F)

Autoignition temperature : 295°C (563°F)

Suitable extinguishing

media

: Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.

Unsuitable extinguishing

nedia

: High volume water jet.

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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

: Carbon oxides. 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.

Prevent product from entering drains. Prevent further leakage **Environmental precautions** 

or spillage if safe to do so. If the product contaminates rivers

and lakes or drains inform respective authorities.

: Contain spillage, and then collect with non-combustible Methods for cleaning up

> 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

> exposure - obtain special instructions before use. 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. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any

process in which this mixture is being used.

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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**

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 : 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. Full-Face Air-Purifying Respirator for Organic Vapors, Dusts and Mists. 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. Tightly fitting safety goggles.

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:. Remove and wash contaminated clothing before re-use. Skin should be washed

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after contact. 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 : Repulsive

Safety data

Flash point :  $-48^{\circ}$ C ( $-54^{\circ}$ F)

Lower explosion limit : 2.8 %(V)

Upper explosion limit : 18 %(V)

Oxidizing properties : No

Autoignition temperature : 295°C (563°F)

Molecular formula : C2H6S

Molecular weight : 62.14 g/mol

pH : Not applicable

Pour point : No data available

Boiling point/boiling range : 35°C (95°F)

Vapor pressure : 16.20 PSI

at 37.8°C (100.0°F)

Relative density : 0.84

at 15.6 °C (60.1 °F)

Water solubility : Negligible

Partition coefficient: n-

octanol/water

: No data available

Viscosity, kinematic : No data available

Relative vapor density : 2.1

(Air = 1.0)

Evaporation rate : 1

Percent volatile : > 99 %

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## **SECTION 10: Stability and reactivity**

**Reactivity**: Stable under recommended storage conditions.

Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

Possibility of hazardous reactions

**Hazardous reactions**: Hazardous polymerization does not

occur.

Hazardous reactions: Vapors may form explosive mixture with

air

**Conditions to avoid** : Heat, flames and sparks.

Materials to avoid : May react with oxygen and strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

Hazardous decomposition

products

: Carbon oxides Sulfur oxides

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

## **SECTION 11: Toxicological information**

**Acute oral toxicity** 

Ethyl Mercaptan : LD50: 682 mg/kg

Species: Rat Sex: male

Method: Fixed Dose Method

Acute inhalation toxicity

Ethyl Mercaptan : LC50: 11.23 mg/l

Exposure time: 4 h Species: Rat Sex: male

Test atmosphere: vapor

Skin irritation

Ethyl Mercaptan : slight irritation.

Eye irritation

Ethyl Mercaptan : slight irritation. Information given is based on data obtained

from similar substances.

Sensitization

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Ethyl Mercaptan : The product is a skin sensitizer, sub-category 1B.

Information given is based on data obtained from similar

substances.

Repeated dose toxicity

Ethyl Mercaptan : Species: Rat, Male and female

Sex: Male and female Application Route: Inhalation Dose: 25, 100, 400 ppm Exposure time: 13 wks

Number of exposures: 6 hr/d, 5 d/wk

NOEL: 100 ppm

Lowest observable effect level: 400 ppm

Method: OECD Guideline 413

Information given is based on data obtained from similar

substances.

Species: Rat, Male and female

Sex: Male and female Application Route: Oral Dose: 0, 10, 50, 200 mg/kg Exposure time: 42-53 days

NOEL: 50 mg/kg

Method: OECD Guideline 422

Information given is based on data obtained from similar

substances.

Species: Rat, Male and female

Sex: Male and female Application Route: Inhalation

Dose: 9, 97, 196 ppm Exposure time: 13 wks

Number of exposures: 6 hr/d, 5 d/wk

NOEL: >=196 ppm

Method: OECD Guideline 413

Information given is based on data obtained from similar

substances.

Species: Rat, Male and female

Sex: Male and female

Application Route: Inhalation Dose: 0.03, 0.26, 0.55 mg/L Exposure time: 13 wks

Number of exposures: 6 hr/d, 5 d/wk

NOEL: 0.03 mg/l

Method: OECD Test Guideline 413

Information given is based on data obtained from similar

substances.

Genotoxicity in vitro

Ethyl Mercaptan : Test Type: Ames test

Metabolic activation: with and without metabolic activation Method: Mutagenicity (Escherichia coli - reverse mutation

assay)

Result: negative

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Test Type: Mouse lymphoma assay Method: OECD Guideline 476

Result: Ambiguous

Test Type: Sister Chromatid Exchange Assay

Metabolic activation: with and without metabolic activation

Result: positive

Genotoxicity in vivo

Ethyl Mercaptan : Test Type: Micronucleus test

Species: Mouse

Method: Mutagenicity (micronucleus test)

Result: negative

Reproductive toxicity

Ethyl Mercaptan : Species: Rat

Sex: male and female Application Route: Oral diet Dose: 0, 10, 50, 200 mg/kg Exposure time: 42-53 days Number of exposures: once daily Method: OECD Guideline 422 NOAEL Parent: 200 mg/kg NOAEL F1: 50 mg/kg

Information given is based on data obtained from similar

substances.

**Developmental Toxicity** 

Ethyl Mercaptan : Species: Rat

Application Route: Inhalation Dose: 0, 0.037, 0.28, or 0.56 mg/L Number of exposures: 6 hrs/d

Test period: GD 6-19

Method: OECD Guideline 414 NOAEL Teratogenicity: > 0.56 mg/l

Information given is based on data obtained from similar

substances.

Species: Rat

Application Route: Inhalation Dose: 0, 10, 100, 200 ppm Number of exposures: 6 hrs/d

Test period: GD 6-19

Method: OECD Guideline 414 NOAEL Teratogenicity: > 200 ppm NOAEL Maternal: > 200 ppm

Information given is based on data obtained from similar

substances.

**Aspiration toxicity** 

Ethyl Mercaptan : May be harmful if swallowed and enters airways.

**CMR** effects

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Ethyl Mercaptan : Carcinogenicity: Not available

Mutagenicity: Not mutagenic in Ames Test.

Teratogenicity: Animal testing did not show any effects on

fetal development.

Reproductive toxicity: Animal testing did not show any effects

on fertility.

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**Further information** : Solvents may degrease the skin.

## **SECTION 12: Ecological information**

Toxicity to fish

Ethyl Mercaptan : 2.4 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

Ethyl Mercaptan : EC50: < 0.1 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202

Toxicity to algae

Ethyl Mercaptan : EC50: 3 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

M-Factor

ethanethiol : M-Factor (Acute Aquat. Tox.) 10

M-Factor (Chron. Aquat. Tox.) 10

Biodegradability

Ethyl Mercaptan : aerobic

Result: Not readily biodegradable.

0 %

Testing period: 29 d

Method: OECD Test Guideline 301F

Elimination information (persistence and degradability)

Bioaccumulation : This material is not expected to bioaccumulate.

Mobility

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Ethyl Mercaptan : The product will be dispersed amongst the various

environmental compartments (soil/ water/ air).

Results of PBT assessment

Ethyl Mercaptan : Non-classified PBT substance, Non-classified vPvB substance

Short-term (acute) aquatic hazard

Ethyl Mercaptan : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard

Ethyl Mercaptan : Very toxic to aquatic life with long lasting effects.

## **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 : 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**

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)**

UN2363, ETHYL MERCAPTAN, 3, I, MARINE POLLUTANT, (ETHYL MERCAPTAN)

## IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN2363, ETHYL MERCAPTAN, 3, I, (-48°C), MARINE POLLUTANT, (ETHYL MERCAPTAN)

## IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN2363, ETHYL MERCAPTAN, 3, I

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## ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

UN2363, ETHYL MERCAPTAN, 3, I, (D/E), ENVIRONMENTALLY HAZARDOUS, (ETHYL MERCAPTAN)

# RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

UN2363, ETHYL MERCAPTAN, 3, I, ENVIRONMENTALLY HAZARDOUS, (ETHYL MERCAPTAN)

# ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

UN2363, ETHYL MERCAPTAN, 3, I, ENVIRONMENTALLY HAZARDOUS, (ETHYL MERCAPTAN)

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

## **SECTION 15: Regulatory information**

#### **National legislation**

**Poisonous and Deleterious Substances Control Law** 

: Not applicable

## **Industrial Safety and Health Law**

Substances Subject to be

Notified Names Article 57-2

(Enforcement Order Table 9)

Enforcement Order of the

Industrial Safety and Health

Law - Attached table 1 (Dangerous Substances)

Enforcement Order of the

Industrial Safety and Health Law - Attached table 1

(Dangerous Substances)

Harmful Substances Required

Permission for Manufacture

Hazardous Substances Subject to Labeling

Requirements Article 57
(Enforcement Order Article

18)

Ordinance on Prevention of

Organic Solvent Poisoning

Ordinance on Prevention of

Lead Poisoning

: ethanethiol(62)

: Inflammable Substance

: Inflammable Substance

: Not applicable

: ethanethiol (62)

: Not applicable

: Not applicable

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Harmful Substances

Prohibited from Manufacture

Ordinance on Prevention of Hazards Due to Specified

Chemical Substances

Ordinance on Prevention of

Tetraalkyl Lead Poisoning

: Not applicable

: Not applicable

: Not applicable

Not applicable

: Not applicable

Substances Prevented From

Impairment of Health

: Not applicable

Listed

#### **Chemical Substance Control Law**

: Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the **Environment and Promotion of Improvements to the Management Thereof** 

Class I Designated Chemical

Substances

: ethanethiol(45)

## Other regulations

Fire Service Law : Flammable liquids

> Special flammables Hazardous rank I

High Pressure Gas Safety Act : Not applicable

Explosive Control Law : Not applicable

Vessel Safety Law : Flammable liquids (Article 2 and 3 of rules on shipping and

storage of dangerous goods and its Attached Table 1)

: Flammable liquid (Article 194 of The Enforcement Rules of **Aviation Law** 

Aviation Law and its Attached Table 1)

**Notification status** 

Europe REACH This product is in full compliance according to REACH

regulation 1907/2006/EC.

Switzerland CH INV

United States of America (USA)

**TSCA** 

Canada DSL

On the inventory, or in compliance with the inventory On or in compliance with the active portion of the

TSCA inventory

All components of this product are on the Canadian

On the inventory, or in compliance with the inventory Australia AICS On the inventory, or in compliance with the inventory New Zealand NZIoC Japan ENCS On the inventory, or in compliance with the inventory Korea KECI All substances in this product were registered, notified

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> to be registered, or exempted from registration by CPChem through an Only Representative according to K-REACH regulations. Importation of this product is permitted if the Korean Importer of Record was included on CPChem's notifications or if the Importer of

Record themselves notified the substances.

Philippines PICCS On the inventory, or in compliance with the inventory China IECSC On the inventory, or in compliance with the inventory Taiwan TCSI On the inventory, or in compliance with the inventory

## **SECTION 16: Other information**

## **Further information**

: 10555 Legacy SDS Number

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%			
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			

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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%		

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