SAFETY DATA SHEET



Ethyl Mercaptan

Version 3.3

Revision Date 2019-10-07

according to GB/T 16483 and GB/T 17519

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

Product information Product Name Material		Ethyl Mercaptan 1118972, 1111485, 1024772, 1086422, 1086423, 1021429, 1021431, 1021426, 1021430, 1021425, 1021424, 1024773, 1024771, 1024770, 1021427, 1026776, 1021428, 1104918	
Company	:	Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380	
Local	:	Chevron Phillips Chemicals (Shanghai) Corporation Room 1810-1812, Shanghai Mart, 2299 Yan An Road (W), Shanghai, PRC 200336	
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			
Website	:	www.CPChem.com	
	tion		
Website CTION 2: Hazards identifica Classification of the subs	tance	www.CPChem.com	

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Form: Liquid Physical stat	te: Liquid Color: Colorless Odor: Repulsive	
Hazards	: Extremely flammable liquid and vapor. Harmful if swallowed. Harmful if inhaled. May cause an allergic skin reaction. May harmful if swallowed and enters airways. Very toxic to aquati life. Very toxic to aquatic life with long lasting effects.	
Classification		
	 Flammable liquids, Category 1 Acute toxicity, Category 4, Oral Acute toxicity, Category 4, Inhalation Skin sensitization, Category 1 Aspiration hazard, Category 2 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. H305: May be harmful if swallowed and enters airways. H317: May cause an allergic skin reaction. H410: Very toxic to aquatic life with long lasting effects. 	
Precautionary Statements	 Prevention: P210: Keep away from heat/sparks/open flames/hot surface 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 discharg P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P264: Wash skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area. P272: Contaminated work clothing should not be allowed or of the workplace. P273: Avoid release to the environment. P280: Wear protective gloves/ eye protection/ face protection Response: P301 + P310: IF SWALLOWED: Immediately call a POISO CENTER/doctor. P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 + P312: IF INHALED: Remove person to fres 	

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	P331: P333 + advice/ P362 + before r P370 + alcohol- P391: Storage P403 + P405: Dispos	P378: In case of fire: Use dr resistant foam to extinguish. Collect spillage. e: P235: Store in a well-ventila Store locked up. al: Dispose of contents/ containe	d clothing and wash it y sand, dry chemical or ted place. Keep cool.	
CTION 3: Composition/info Synonyms	ormation on ing : ETSH Ethanethi Ethyl Mer	iol		
Molecular formula	: C2H6S	Captan		
Chemical name		CAS-No. / EINECS-No.	Concentration	
Ethyl Mercaptan		75-08-1	[wt%] 99	
CTION 4: First aid measure	es			
General advice	material s Symptom	of dangerous area. Consult a safety data sheet to the doctor is of poisoning may appear se the victim unattended.	in attendance.	
If inhaled		Call a physician or poison control center immediately. If unconscious, place in recovery position and seek medical advice.		
In case of skin contact	: If on skin	, rinse well with water. If on cl	othes, remove clothes.	
In case of eye contact	lenses. F	ely flush eye(s) with plenty of Protect unharmed eye. Keep e f eye irritation persists, consult	eye wide open while	
If swallowed	an uncon	piratory tract clear. Never give scious person. If symptoms p im immediately to hospital.		

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CTION 5: Firefighting measu	res		
Flash point	:	-48 °C (-54 °F)	
Autoignition temperature	:	295 °C (563 °F)	
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	:	Carbon oxides. Sulfur oxides.	
CTION 6: Accidental release	mea	asures	
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).	
CTION 7: Handling and storage			

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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. 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	: Prevent unauthorized access. 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

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Components	Basis	Value	Control parameters	Note
Ethyl Mercaptan	GBZ 2.1-2007	PC-TWA	1 mg/m3	

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Ethyl Mercaptan	75-08-1		2002-04-30

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.
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	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. Wear face-shield and protective suit for abnormal processing problems.
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 after contact. Flame retardant protective clothing. Workers should wear antistatic footwear.
Hygiene measures	: Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before
	breaks and immediately after handling the product.
CTION 9: Physical and chen	
	ical properties
Information on basic phys	ical properties
Information on basic phys Appearance Form Physical state Color Odor	ical properties ical and chemical properties : Liquid : Liquid : Colorless
Information on basic phys Appearance Form Physical state Color	ical properties ical and chemical properties : Liquid : Liquid : Colorless
Information on basic phys Appearance Form Physical state Color Odor Safety data	ical properties ical and chemical properties : Liquid : Liquid : Colorless : Repulsive
Information on basic phys Appearance Form Physical state Color Odor Safety data Flash point	ical and chemical properties : Liquid : Liquid : Colorless : Repulsive : -48 °C (-54 °F)
Information on basic phys Appearance Form Physical state Color Odor Safety data Flash point Lower explosion limit	ical properties ical and chemical properties : Liquid : Liquid : Colorless : Repulsive : -48 °C (-54 °F) : 2.8 %(V)
Information on basic phys Appearance Form Physical state Color Odor Safety data Flash point Lower explosion limit Upper explosion limit	<pre>ical properties ical and chemical properties : Liquid : Liquid : Colorless : Repulsive : -48 °C (-54 °F) : 2.8 %(V) : 18 %(V)</pre>
Information on basic phys Appearance Form Physical state Color Odor Safety data Flash point Lower explosion limit Upper explosion limit Oxidizing properties	<pre>ical properties ical and chemical properties : Liquid : Liquid : Colorless : Repulsive : -48 °C (-54 °F) : 2.8 %(V) : 18 %(V) : No</pre>
Information on basic phys Appearance Form Physical state Color Odor Safety data Flash point Lower explosion limit Upper explosion limit Oxidizing properties Autoignition temperature	ical properties ical and chemical properties : Liquid : Liquid : Colorless : Repulsive : -48 °C (-54 °F) : 2.8 %(V) : 18 %(V) : No : 295 °C (563 °F)
Information on basic phys Appearance Form Physical state Color Odor Safety data Flash point Lower explosion limit Upper explosion limit Oxidizing properties Autoignition temperature Molecular formula	ical properties ical and chemical properties : Liquid : Liquid : Colorless : Repulsive : -48 °C (-54 °F) : 2.8 %(V) : 18 %(V) : No : 295 °C (563 °F) : C2H6S
Information on basic phys Appearance Form Physical state Color Odor Safety data Flash point Lower explosion limit Upper explosion limit Oxidizing properties Autoignition temperature Molecular formula Molecular weight	ical properties ical and chemical properties : Liquid : Liquid : Colorless : Repulsive : -48 °C (-54 °F) : 2.8 %(V) : 18 %(V) : No : 295 °C (563 °F) : C2H6S : 62.14 g/mol

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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 %

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 rea	ctions
Hazardous reactions	: Hazardous reactions: Hazardous polymerization does not occur.
	Further information: No decomposition if stored and applied as directed.
	Hazardous reactions: Vapors may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.
Materials to avoid Hazardous decomposition products	 May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc. Carbon oxides Sulfur oxides
Other data	: No decomposition if stored and applied as directed.
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SECTION 11: Toxicological information

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Ethyl Mercaptan Acute oral toxicity	: Acute toxicity estimate: 688.89 mg/kg Method: Calculation method
Ethyl Mercaptan Acute inhalation toxicity	: Acute toxicity estimate: 11.11 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method
Skin irritation	
Ethyl Mercaptan	: slight irritation.
Eye irritation Ethyl Mercaptan	: Information given is based on data obtained from similar substances.
Sensitization	
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.

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ersion 3.3	Revision Date 2019-10-07
	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 Sex: Male and female Sex: 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
Genotoxicity in vitro Ethyl Mercaptan	substances.
	Metabolic activation: with and without metabolic activation Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative
	Test Type: Mouse lymphoma assay Method: OECD Guideline 476
	Result: Ambiguous
Genotoxicity in vivo	Result: Ambiguous Test Type: Sister Chromatid Exchange Assay Metabolic activation: with and without metabolic activation
Genotoxicity in vivo Ethyl Mercaptan	Result: Ambiguous Test Type: Sister Chromatid Exchange Assay Metabolic activation: with and without metabolic activation
-	 Result: Ambiguous Test Type: Sister Chromatid Exchange Assay Metabolic activation: with and without metabolic activation Result: positive Test Type: Micronucleus test Species: Mouse Method: Mutagenicity (micronucleus test)

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ion 3.3	Revision Date 2019-1	
	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 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.	
Ethyl Mercaptan Further information	: Solvents may degrease the skin.	
TION 12: Ecological info	rmation	
Toxicity to fish		
Ethyl Mercaptan	: 2.4 mg/l Exposure time: 96 h	
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ersion 3.3	Revision Date 2019-10-0				
	Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 203				
Toxicity to daphnia and othe	er 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	: This material is not expected to be readily biodegradable.				
Elimination information (persis	stence and degradability)				
Bioaccumulation	: This material is not expected to bioaccumulate.				
Mobility					
Ethyl Mercaptan	: No data available				
Results of PBT assessment Ethyl Mercaptan	: Non-classified PBT substance, Non-classified vPvB substance				
Additional ecological information	 An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life with long lasting effects. 				
Ecotoxicology Assessment					
Short-term (acute) aquatic haz Ethyl Mercaptan	zard : Very toxic to aquatic life.				
Long-term (chronic) aquatic ha Ethyl Mercaptan	azard : Very toxic to aquatic life with long lasting effects.				
ECTION 13: Disposal considera	ations				
The information in this SDS pe	ertains only to the product as shipped.				
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may meet the criteria of a ha other State and local regulati regulated components may b	purpose or recycle if possible. This material, if it must be discarded, zardous waste as defined by US EPA under RCRA (40 CFR 261) or ons. Measurement of certain physical properties and analysis for be necessary to make a correct determination. If this material is ste, federal law requires disposal at a licensed hazardous waste
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 informa	ition
	shown here are for bulk shipments only, and may not apply to kages (see regulatory definition).
Goods Regulations for addition etc.) Therefore, the information	estic or international mode-specific and quantity-specific Dangerous onal shipping description requirements (e.g., technical name or names, ion shown here, may not always agree with the bill of lading shipping Flashpoints for the material may vary slightly between the SDS and the
	DEPARTMENT OF TRANSPORTATION) PTAN, 3, I, MARINE POLLUTANT, (ETHYL MERCAPTAN)
	AL MARITIME DANGEROUS GOODS) PTAN, 3, I, (-48 °C), MARINE POLLUTANT, (ETHYL MERCAPTAN)
IATA (INTERNATIONAL AIF UN2363, ETHYL MERCA	R TRANSPORT ASSOCIATION) PTAN, 3, I
	NGEROUS GOODS BY ROAD (EUROPE)) PTAN, 3, I, (D/E), ENVIRONMENTALLY HAZARDOUS, (ETHYL
DANGEROUS GOODS (EUR	
UN2363, ETHYL MERCAF MERCAPTAN)	PTAN, 3, I, ENVIRONMENTALLY HAZARDOUS, (ETHYL
OF DANGEROUS GOODS E	IENT CONCERNING THE INTERNATIONAL CARRIAGE 3Y INLAND WATERWAYS) PTAN, 3, I, ENVIRONMENTALLY HAZARDOUS, (ETHYL

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TION 15: Regulatory information	ı		
Classification and Labeling of : Commonly Used Dangerous Chemical Substances	Primary labe	l: Combustible I	-iquid.
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL Australia AICS New Zealand NZIoC Japan ENCS Korea KECI	 On the On or i TSCA All con DSL On the On the On the All sub to be response K-REA permitti include 	inventory, or in n compliance w inventory ponents of this inventory, or in inventory, or in inventory, or in stances in this p egistered, or ex em through an C CH regulations ed if the Korear ed on CPChem'	compliance with the inventory compliance with the inventory ith the active portion of the product are on the Canadian compliance with the inventory compliance with the inventory compliance with the inventory product were registered, notified empted from registration by Only Representative according to . Importation of this product is n Importer of Record was s notifications or if the Importer of putified the substances.
Philippines PICCS China IECSC Taiwan TCSI	: On the	inventory, or in	compliance with the inventory compliance with the inventory compliance with the inventory
TION 16: Other information			
Further information Legacy SDS Number : · · Significant changes since the last	10555 version are hid	ahliahted in the	margin. This version replaces all
previous versions.		jge	
The information in this SDS pertai	ns only to the	product as ship	ped.
The information provided in this Sa information and belief at the date of guidance for safe handling, use, p not to be considered a warranty of specific material designated and n other materials or in any process,	of its publication rocessing, stor quality specifinay not be vali	on. The informat rage, transporta ication. The info d for such mate	ion given is designed only as a ition, disposal and release and is prmation relates only to the
Key or legend to abbre ACGIH American Conferen		acronyms used LD50	in the safety data sheet Lethal Dose 50%
Government Indust	rial Hygienists	LOAEL	Lowest Observed Adverse Effect
AICS AUStralia Inventory	er enemiear		Level
AICS Australia, Inventory Substances DSL Canada, Domestic	Substances	NFPA	National Fire Protection Agency

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	Substances List		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%		