

Scentinel® A Gas Odorant

Version 3.1

Product information	
Product Name Material	 Scentinel® A Gas Odorant 1119674, 1119564, 1106807, 1098462, 1102596, 1086453, 1098407, 1086452, 1102264, 1072060, 1098463, 1103512, 1070006, 1024777, 1024776, 1024775, 1024774, 1029441, 1029442, 1029443, 1029444, 1029445
Company	: Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
Emergency telephone:	
Asia: CHEMWATCH EUROPE: BIG +32.1 Mexico CHEMTREC	national) 9300 or 703.527.3887(int'l) +612 9186 1132) China: 0532 8388 9090 .584545 (phone) or +32.14583516 (telefax) 1-800-681-9531 (24 hours) cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
Responsible Departmen E-mail address Website	 Product Safety and Toxicology Group SDS@CPChem.com www.CPChem.com
ODOR-FADE WARNING	
	E A FIRE OR EXPLOSION RESULTING IN SERIOUS INJURY OR
A GAS LEAK CAN CAU DEATH. Be aware that the stench	E A FIRE OR EXPLOSION RESULTING IN SERIOUS INJURY OR ing chemical added to gas to make it detectable may not warn of a gas the or natural gas to all persons in every instance.
A GAS LEAK CAN CAU DEATH. Be aware that the stench or the presence of propa	ng chemical added to gas to make it detectable may not warn of a gas
A GAS LEAK CAN CAU DEATH. Be aware that the stench or the presence of propa Instances where the odd • Odor intensity may fad the oxidation of rusting p absorption into liquids. • Contact with soil in und	ing chemical added to gas to make it detectable may not warn of a gas ne or natural gas to all persons in every instance.

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affect a person's sense of smell include age, gender, medical conditions, and alcohol/tobacco usage. • The stench of odorized gas may not awaken sleeping persons.

• Other odors may mask or hide the stench.

• Exposure to the odor for even a short period of time, may cause nasal fatigue, where a person can no longer smell the stench.

Gas detectors listed by the Underwriters Laboratories (UL) can be used as an extra measure of safety for detecting gas leaks, especially under conditions where the odorant alone may not provide an adequate warning. Gas detectors emit a loud, shrill sound when gas is present and do not depend on sense of smell. Because the odor intensity can fade or people may have problems with their sense of smell, we recommend installing, per manufacturer's instructions, one or more combustible gas detectors, in suitable locations to ensure adequate coverage to detect gas leaks.

Educate yourself, your employees, and your customers with the content of this warning and other important facts associated with the so-called "odor-fade phenomenon."

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.

Classification	 Flammable liquids, Category 1 Acute toxicity, Category 4, Oral Acute toxicity, Category 4, Inhalation Skin sensitization, Sub-category 1B
Labeling	
Symbol(s)	
Signal Word	: Danger
Hazard Statements	 H224: Extremely flammable liquid and vapor. H302: Harmful if swallowed. H317: May cause an allergic skin reaction. H332: Harmful if inhaled.
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. 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. P280 Wear protective gloves/ eye protection/ face protection.
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		WALLOWED: Call a POISON
	CENTER/doctor if yo P303 + P361 + P353	
	off immediately all co water/ shower.	ntaminated clothing. Rinse skin with
		HALED: Remove victim to fresh air and
		tion comfortable for breathing. IF IN EYES: Rinse cautiously with
		utes. Remove contact lenses, if present
	and easy to do. Conti P311 Call a POISC	inue rinsing. DN CENTER/doctor.
	P330 Rinse mouth.	
		e irritation persists: Get medical advice/
	attention. P370 + P378 In ca	se of fire: Use dry sand, dry chemical or
	alcohol-resistant foan	
	Storage: P403 + P233 Store	e in a well-ventilated place. Keep container
	tightly closed.	
	P403 + P235 Store P405 Store locked	e in a well-ventilated place. Keep cool. up.
	Disposal:	
	P501 Dispose of co disposal plant.	ontents/ container to an approved waste
Carcinogenicity:		
IARC		oduct present at levels greater than or ied as probable, possible or confirmed
	human carcinogen by L	ARC.
NTP		oduct present at levels greater than or ied as a known or anticipated carcinogen
ACGIH	No ingredient of this pro	oduct present at levels greater than or ied as a carcinogen or potential carcinogen
ECTION 3: Composition/ii	nformation on ingredients	
Synonyms	: ETSH Ethanethiol Ethyl Mercaptan	
Molecular formula	: C2H6S	
Component	CAS-No.	Weight %
Ethyl Mercaptan	75-08-1	99
CTION 4: First aid meas	ures	
General advice		us area. Consult a physician. Show this sheet to the doctor in attendance.
OS Number:100000068741	Symptoms of poisoni	ng may appear several hours later. Do 3/14

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		not leave the victim unattended.
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 clothes, remove clothes.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. 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.
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.
TION 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
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		form explosi areas.	ve concentra	tions. Vapors can acc	cumulate in low
Environmental precautions	:	or spillage if	safe to do so	ering drains. Prevent b. If the product conta n respective authoritie	aminates rivers
Methods for cleaning up	:	absorbent m vermiculite)	aterial, (e.g. and place in	n collect with non-con sand, earth, diatomac container for disposal s (see section 13).	ceous earth,
CTION 7: Handling and stora	age				
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. Dispose of rinse water in accordance with local and national regulations.			
Advice on protection against fire and explosion	:	material. Ta discharge (w only explosio	ke necessary hich might ca	flame or any other ind y action to avoid statio ause ignition of organ pment. Keep away fr of ignition.	c electricity ic vapors). Use
Storage					
Requirements for storage areas and containers	:	tightly closed which are op to prevent le installations	d in a dry and bened must b akage. Obse	cess. No smoking. K I well-ventilated place e carefully resealed a erve label precautions terials must comply w dards.	 Containers and kept upright Electrical
	Incr	onal protect	tion		
CTION 8: Exposure controls					
radianta	Deel		(alua	Control according	Noto
redients	Basis ACGI		/alue ™A	Control parameters 0.5 ppm,	Note CNS impair, URT irr,
yl Mercantan	1001				
nyl Mercaptan	OSH/	.Z-1 (<u>. </u>	10 ppm, 25 mg/m3	(b), (C),

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
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thyl Mercaptan	75-08-1	Immediately Dangerous to Life or Health 1995-03-01 Concentration Value 500 parts per million
Engineering measures		
Consider the potential haz activities, and other substa personal protective equipr exposure to harmful levels recommended. The user	ards of this mances in the work of the work of the work of this materiation of this materiation of the work of the	d concentrations below the exposure guidelines/limits. aterial (see Section 2), applicable exposure limits, job ork place when designing engineering controls and selectin eering controls or work practices are not adequate to preve al, the personal protective equipment listed below is nd understand all instructions and limitations supplied with y provided for a limited time or under certain circumstances
Personal protective equi	pment	
Respiratory protection	ventila mainta norma respira materia occur, Use a potenti known	a supplied-air NIOSH approved respirator unless tion or other engineering controls are adequate to ain minimal oxygen content of 19.5% by volume under I atmospheric pressure. Wear a NIOSH approved ator that provides protection when working with this al if exposure to harmful levels of airborne material may such as:. Air-Purifying Respirator for Organic Vapors. positive pressure, air-supplying respirator if there is ial for uncontrolled release, exposure levels are not of provide adequate protection.
Hand protection	with th the ins which consid produc contac	uitability for a specific workplace should be discussed the producers of the protective gloves. Please observe structions regarding permeability and breakthrough time are provided by the supplier of the gloves. Also take into leration the specific local conditions under which the ct is used, such as the danger of cuts, abrasion, and the ct time. Gloves should be discarded and replaced if there indication of degradation or chemical breakthrough.
Eye protection		ash bottle with pure water. Tightly fitting safety goggles. face-shield and protective suit for abnormal processing ms.
Skin and body protection	concer specifi contan after c	te body protection in relation to its type, to the ntration and amount of dangerous substances, and to the c work-place. Wear as appropriate:. Remove and wash ninated clothing before re-use. Skin should be washed ontact. Flame retardant protective clothing. Workers I wear antistatic footwear.
Hygiene measures	eat or	contact with skin, eyes and clothing. When using do not drink. When using do not smoke. Wash hands before and immediately after handling the product.
ECTION 9: Physical and che	emical proper	rties
Information on basic ph Appearance	ysical and ch	emical properties
Form	: Liquic	Ł
Physical state Color Odor	: Liquic : Color : Repu	d less
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Safety data	
Flash point	: -48 °C (-54 °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
рН	: 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 %
CTION 10: Stability and react	vity
Chemical stability	 This material is considered stable under normal ambient an anticipated storage and handling conditions of temperature and pressure.

	Conditions to avoid	:	Heat, flames and sparks.
	Materials to avoid	:	May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
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Hazardous decomposition products	: Carbon oxides Sulfur oxides
Other data	: No decomposition if stored and applied as directed.
CTION 11: Toxicological info	rmation
Acute oral toxicity	
Ethyl Mercaptan	: LD50: 682 mg/kg Species: Rat Sex: male Method: Fixed Dose Method
Acute inhalation toxicity	
Ethyl Mercaptan	: LC50: 11 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Acute toxicity estimate
Skin irritation	
Ethyl Mercaptan	: Information given is based on data obtained from similar substances.
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: 0, 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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	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.
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	
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.
TION 12: Ecological informat	tion
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 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 (Chron. Aquat. Tox.) 10
Elimination information (persis	tence and degradability)
Bioaccumulation	: This material is not expected to bioaccumulate.
Biodegradability	: This material is not expected to be readily biodegradable.
Ecotoxicology Assessment	
Acute aquatic toxicity Ethyl Mercaptan	: Very toxic to aquatic life.
Chronic aquatic toxicity Ethyl Mercaptan	: Very toxic to aquatic life with long lasting effects.
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.
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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

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)

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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

SARA 311/312 Hazards	: Flammable (gases, aerosols, liquids, or solids) Acute toxicity (any route of exposure) Respiratory or skin sensitization			
CERCLA Reportable Quantity	: This material does not contain any components with a CERCLA RQ.			
SARA 302 Reportable Quantity	: This material does not contain any components with a SARA 302 RQ.			
SARA 302 Threshold Planning Quantity	: 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	: 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				
Ozone-Depletion : This product neither contains, nor was manufactured with a Class I or Potential : 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).				
The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F): : Ethyl Mercaptan - 75-08-1				
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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 :	Ethyl Mercaptan - 75-08-1				
New Jersey Right To Know :	Ethyl Mercaptan - 75-08-1				
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 United States of America (USA) TSCA Canada DSL Australia AICS New Zealand NZIOC Japan ENCS Korea KECI Philippines PICCS China IECSC	 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory 				
NFPA Classification :	Health Hazard: 2 Fire Hazard: 4 Reactivity Hazard: 0				
Further information Legacy SDS Number :	25580				
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.SDS Number:10000006874113/14					

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Key or legend to abbreviations and acronyms used in the safety data sheet				
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%	
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level	
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency	
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health	
CNS	Central Nervous System	NTP	National Toxicology Program	
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals	
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level	
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration	
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration	
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit	
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances	
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic	
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act	
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit	
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.	
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value	
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average	
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act	
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials	
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System	
LC50	Lethal Concentration 50%			