Sulfolene

Chevron Phillips Chemical Company LP

Version 4.2

Revision Date 2020-04-24

ECTION 1: Identification of the	e su	ibstance/mixture and of the company/undertaking
Product information		
Product Name Material	:	Sulfolene 1094561, 1024666, 1024665, 1024664, 1024663, 1024662, 1024667
Use	:	Chemical intermediate
Company	:	Chevron Phillips Chemical Company LP Specialty Chemicals 10001 Six Pines Drive The Woodlands, TX 77380
Emergency telephone:		
EUROPE: BIG +32.14.584 Mexico CHEMTREC 01-8	ona 0 o 2 9 454 00- c In 431	l) r 703.527.3887(int'l) 186 1132) China: 0532 8388 9090 5 (phone) or +32.14583516 (telefax) 681-9531 (24 hours) iside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
E-mail address Website	:	SDS@CPChem.com www.CPChem.com
ECTION 2: Hazards identificati	ion	
	fied	e or mixture in accordance with the hazard communication standard 29 CFR contain all the information as required by the standard.
Classification	:	Combustible dust Eye irritation, Category 2A
Labeling		
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Symbol(s)		
Signal Word	: Warning	
Hazard Statements	: May form combustible du H319: Causes serious ey	
Precautionary Statements	water for several minutes. I and easy to do. Continue ri	n/ face protection. IN EYES: Rinse cautiously with Remove contact lenses, if present
Carcinogenicity:		
IARC		present at levels greater than or
NTP	equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. 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.	
TION 3: Composition/info	ormation on ingredients	
Synonyms	: 3-Sulfolene 2,5-Dihydrothiophene-1,1-c	dioxide
Synonyms Molecular formula		dioxide
	2,5-Dihydrothiophene-1,1-c	dioxide Weight % 90 - 100
Molecular formula Component	2,5-Dihydrothiophene-1,1-o : C4H6SO2 CAS-No. 77-79-2	Weight %
Molecular formula Component Sulfolene	2,5-Dihydrothiophene-1,1-c : C4H6SO2 CAS-No. 77-79-2 es	Weight % 90 - 100 va. Show this material safety data
Molecular formula Component Sulfolene CTION 4: First aid measure	2,5-Dihydrothiophene-1,1-o : C4H6SO2 CAS-No. 77-79-2 es : Move out of dangerous are sheet to the doctor in atten	Weight % 90 - 100 a. Show this material safety data dance. covery position and seek medical
Molecular formula Component Sulfolene CTION 4: First aid measure General advice	2,5-Dihydrothiophene-1,1-o : C4H6SO2 CAS-No. 77-79-2 es : Move out of dangerous are sheet to the doctor in atten : If unconscious, place in rec	Weight % 90 - 100 ea. Show this material safety data dance. covery position and seek medical st, call a physician.
Molecular formula Component Sulfolene CTION 4: First aid measure General advice If inhaled	2,5-Dihydrothiophene-1,1-o : C4H6SO2 CAS-No. 77-79-2 es : Move out of dangerous are sheet to the doctor in atten : If unconscious, place in reo advice. If symptoms persis : Wash off with warm water a : Immediately flush eye(s) w	Weight % 90 - 100 a. Show this material safety data dance. covery position and seek medical st, call a physician. and soap. ith plenty of water. Remove contact eye. Keep eye wide open while

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If swallowed	:	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
TION 5: Firefighting measu	res	
Flash point	:	113°C (235°F) estimated
Autoignition temperature	:	No data available
Unsuitable extinguishing media	:	High volume water jet.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Fire and explosion protection	:	Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
Hazardous decomposition products	:	Butadiene. Sulfur oxides.
TION 6: Accidental release	me	asures
Personal precautions	:	Use personal protective equipment. Avoid dust formation. Avoid breathing dust.
Environmental precautions	:	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	:	Keep in suitable, closed containers for disposal.
TION 7: Handling and stora	ige	
TION 7: Handling and stora Handling	age	
	ige :	Avoid formation of respirable particles. 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. Dispose of rinse water in accordance with local and national regulations.
Handling	:	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. Dispose of rinse water in
Handling Advice on safe handling Advice on protection	:	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. Dispose of rinse water in accordance with local and national regulations. Avoid dust formation. Provide appropriate exhaust ventilation
Handling Advice on safe handling Advice on protection against fire and explosion	:	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. Dispose of rinse water in accordance with local and national regulations. Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

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Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.
Use	:	Chemical intermediate

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

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Components	Basis	Value	Control parameters	Note
Sulfur dioxide	ACGIH	STEL	0.25 ppm,	pulm func, LRT irr, A4,
	OSHA Z-1	TWA	5 ppm, 13 mg/m3	(b),
	OSHA Z-1-A	TWA	2 ppm, 5 mg/m3	
	OSHA Z-1-A	STEL	5 ppm, 13 mg/m3	
1,3-Butadiene	ACGIH	TWA	2 ppm,	A2,
	OSHA Z-1	TWA	1 ppm,	
	OSHA Z-1	STEL	5 ppm,	
	OSHA CARC	PEL	1 ppm,	
	OSHA 29 CFR 1910.1051(c)	TWA	1 ppm,	
	OSHA CARC	STEL	5 ppm,	
	OSHA 29 CFR 1910.1051(c)	STEL	5 ppm,	

(b) The value in mg/m3 is approximate.A2 Suspected human carcinogen

A2 Suspected numan carcinogen A4 Not classifiable as a human carcinogen

LRT irr Lower Respiratory Tract irritation

pulm func Pulmonary function

Contains no substances with occupational exposure limit values.

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 Dusts and Mists / P100. 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
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		is any indication of degradation or chemical breakthrough.
Eye protection	:	Eye wash bottle with pure water. Safety glasses.
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:. Protective suit. Safety shoes.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
CTION 9: Physical and chem	nical	properties
Information on basic phys	ical	and chemical properties
Appearance		
Form Physical state Color Odor	:	Crystalline solid Solid White to off-white pungent
Safety data		
Flash point	:	113°C (235°F) estimated
Lower explosion limit	:	No data available
Upper explosion limit	:	No data available
Oxidizing properties	:	no
Autoignition temperature	:	No data available
Molecular formula	:	C4H6SO2
Molecular weight	:	118.16 g/mol
рН	:	Not applicable
Freezing point	:	No data available
Pour point		No data available
Boiling point/boiling range	:	Not applicable
Vapor pressure	:	Not applicable
Relative density	:	1.31 at 15.6 °C (60.1 °F), estimated
Water solubility	:	13% at 20C (68F)
Partition coefficient: n- octanol/water	:	No data available
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Viscosity, kinematic	: Not applicable
Relative vapor density	: Not applicable
Evaporation rate	: Not applicable
Dust deflagration index Kst	: 215 m.b_/s
Minimum ignition energy	: 5 - 10 mJ
Particle size	< 500 μm
ECTION 10: Stability and reactive	vity
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.
Conditions to avoid Hazardous decomposition products	 No data available. Butadiene Sulfur oxides
Other data	: No decomposition if stored and applied as directed.
ECTION 11: Toxicological infor	nation
Acute oral toxicity	
Sulfolene	: LD50: 2,876 mg/kg Species: Rat Sex: male and female Method: OECD Test Guideline 401
Acute inhalation toxicity	
Sulfolene	 Exposure time: 4 h Species: Rat Sex: male and female Test atmosphere: vapor Method: OECD Test Guideline 403 An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
Skin irritation	
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Sulfolene	: No skin irritation
Eye irritation Sulfolene	: Eye irritation
Sensitization	
Sulfolene	: Did not cause sensitization on laboratory animals.
Repeated dose toxicity	
Sulfolene	: Species: rat (male) Application Route: oral gavage Dose: 0, 25, 75, 150 mg/kg/d Exposure time: 28 d Number of exposures: daily NOEL: 25 mg/kg Lowest observable effect level: 75 mg/kg Method: OECD Guideline 422 Target Organs: Kidney, Liver

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	Species: rat (female)
	Application Route: oral gavage
	Dose: 0, 10, 25, 75 mg/kg/d
	Exposure time: 40 - 52 d
	Number of exposures: daily
	NOEL: 25 mg/kg
	Lowest observable effect level: 75 mg/kg
	Method: OECD Guideline 422
	Species: Mouse, male
	Sex: male
	Application Route: oral gavage
	Dose: 316,562,1000,1780,3160 mg/kg/d
	Exposure time: 6 wk
	Number of exposures: 5 d/wk
	NOEL: 3,160 mg/kg
	Species: Mouse, female
	Sex: female
	Application Route: oral gavage
	Dose: 316,562,1000,1780,3160 mg/kg/d
	Exposure time: 6 wk
	Number of exposures: 5 d/wk
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	NOEL: 178 mg/kg
	Species: Rat, male
	Sex: male
	Application Route: oral gavage
	Dose: 56, 100, 178, 316, 562 mg/kg
	Exposure time: 6wk
	Number of exposures: 5 d/wk
	NOEL: 316 mg/kg
	Species: Rat, male
	Sex: male
	Application Route: oral gavage
	Dose: 56, 100, 178, 316, 562 mg/kg
	Exposure time: 6wk
	Number of exposures: 5 d/wk
	NOEL: 100 mg/kg
Genotoxicity in vitro	
Sulfolene :	Test Type: Ames test
Suiloierie .	
	Metabolic activation: with and without metabolic activation
	Method: OECD Test Guideline 471
	Result: negative
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	Test Type: Mouse lymphoma assay Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative
	Test Type: Sister Chromatid Exchange Assay Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 479 Result: negative
	Test Type: Chromosome aberration test in vitro Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative
Carcinogenicity	
Sulfolene	 Species: Rat Sex: female Dose: 0, 120, 240 mg/kg Exposure time: 60-78 wks Number of exposures: 5 d/wk Remarks: No evidence of carcinogenicity
	Species: Rat Sex: male Dose: 0,197, 372 mg/kg Exposure time: 60-78 wks Number of exposures: 5 d/wk Remarks: No evidence of carcinogenicity
	Species: Mouse Sex: female Dose: 0, 384, 768 mg/kg Exposure time: 60-78 wks Number of exposures: 5 d/wk Remarks: No evidence of carcinogenicity
	Species: Mouse Sex: male Dose: 0, 311, 622 mg/kg Exposure time: 60-78 wks Number of exposures: 5 d/wk Remarks: No evidence of carcinogenicity
Reproductive toxicity	
Sulfolene	 Species: Rat Sex: male Application Route: oral gavage Dose: 0, 25, 150 mg/kg/d Exposure time: 28 d Number of exposures: daily Method: OECD Guideline 422 NOAEL Parent: 75 mg/kg
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	Species: Rat Sex: female Application Route: oral gavage Dose: 0. 10, 25, 75 mg/kg/d Exposure time: 40 - 52 d Number of exposures: daily Method: OECD Guideline 422 NOAEL Parent: 75 mg/kg NOAEL F1: 25 mg/kg
Sulfolene Aspiration toxicity	: No aspiration toxicity classification.
Sulfolene Further information	: No data available.
CTION 12: Ecological info	rmation
Toxicity to fish	
Sulfolene	: LC50: 940 mg/l Exposure time: 96 h Species: Salmo gairdneri (Rainbow trout) static test Method: OECD Test Guideline 203
Toxicity to daphnia and	other aquatic invertebrates
Sulfolene	: EC50: 800 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Immobilization Method: OECD Test Guideline 202
Toxicity to algae	
Sulfolene	: EC50: > 1,000 mg/l Exposure time: 4 Days Species: Selenastrum capricornutum (algae) Growth inhibition Method: OECD Test Guideline 201
Biodegradability	
Biodegradability Sulfolene	 aerobic Result: Not readily biodegradable. 2 % Testing period: 28 d Method: OECD Test Guideline 301B
	Result: Not readily biodegradable. 2 % Testing period: 28 d
Sulfolene	Result: Not readily biodegradable. 2 % Testing period: 28 d

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Mobility				
Sulfolene :	No data available			
Additional ecological : information	This material is not expected to be harmful to aquatic organisms.			
Ecotoxicology Assessment				
Short-term (acute) aquatic hazar Sulfolene :	d This material is not expected to be harmful to aquatic organisms.			
Long-term (chronic) aquatic haza Sulfolene :	ard This material is not expected to be harmful to aquatic organisms.			
SECTION 13: Disposal consideration	ons			
The information in this SDS perts	ains only to the product as shipped.			
may meet the criteria of a hazard other State and local regulations regulated components may be no	bose or recycle if possible. This material, if it must be discarded, dous waste as defined by US EPA under RCRA (40 CFR 261) or . Measurement of certain physical properties and analysis for ecessary to make a correct determination. If this material is federal law requires disposal at a licensed hazardous waste			
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.			
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).			
Goods Regulations for additional etc.) Therefore, the information s	c or international mode-specific and quantity-specific Dangerous shipping description requirements (e.g., technical name or names, shown here, may not always agree with the bill of lading shipping hpoints for the material may vary slightly between the SDS and the			
	PARTMENT OF TRANSPORTATION) ZARDOUS MATERIAL OR DANGEROUS GOODS FOR S AGENCY.			
	MARITIME DANGEROUS GOODS) ZARDOUS MATERIAL OR DANGEROUS GOODS FOR S AGENCY.			
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IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION) UN3335, AVIATION REGULATED SOLID, N.O.S., (2,5-DIHYDROTHIOPEHENE-1,1-DIOXIDE), 9, III				
ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE)) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.				
RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE)) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.				
ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.				
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code				
National legislation				
SARA 311/312 Hazards : Combustible dust Serious eye damage or eye irritation				
SARA 302 Threshold : No chemicals in this material are subject to the reporting Planning Quantity requirements of SARA Title III, Section 302.				
SARA 313 Components : 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 Potential : 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).				

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1,3 Sul California Prop. 65 : WA Components [lis cau ww [lis cau	sted below], which is [are] know use cancer. For more informa ww.P65Warnings.ca.gov/food. 1,3-Butadiene ARNING: This product can exp	106-99-0 pose you to chemicals including wn to the State of California to roductive harm. For more
: Sul 1,3 Sul California Prop. 65 : WA Components [lis cau ww	B-Butadiene - 106-99-0 Ifur dioxide - 7446-09-5 ARNING: This product can exp sted below], which is [are] known use cancer. For more information ww.P65Warnings.ca.gov/food. 1,3-Butadiene ARNING: This product can exp sted below], which is [are] known use birth defects or other repri- formation go to www.P65Warn 1,3-Butadiene	wn to the State of California to ation go to 106-99-0 pose you to chemicals including wn to the State of California to roductive harm. For more hings.ca.gov. 106-99-0
Components [lis cau ww [lis cau info	sted below], which is [are] know use cancer. For more informative.P65Warnings.ca.gov/food. 1,3-Butadiene ARNING: This product can exp sted below], which is [are] know use birth defects or other repr formation go to www.P65Warn 1,3-Butadiene	wn to the State of California to ation go to 106-99-0 pose you to chemicals including wn to the State of California to roductive harm. For more hings.ca.gov. 106-99-0
[lis cau info	ARNING: This product can exp sted below], which is [are] know use birth defects or other repr formation go to www.P65Warn 1,3-Butadiene	pose you to chemicals including wn to the State of California to roductive harm. For more hings.ca.gov. 106-99-0
[lis cau info	sted below], which is [are] know use birth defects or other repr formation go to www.P65Warn 1,3-Butadiene	wn to the State of California to oductive harm. For more hings.ca.gov. 106-99-0
Notification status		
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 or in compliance with TSCA inventory All components of this problem Not in compliance with the Not in compliance with the Not in compliance with the On the inventory, or in the inventory, or in the inventory, or in the provided to be registered by CPChem according to the Inportation or manufact permitted provided the Internselves notified the Internselves notified the Internselves notified the Internselves notified the Inventory, or in t	compliance with the inventory th the active portion of the product are on the Canadian the inventory the inventory compliance with the inventory product was not registered, d, or exempted from registration to K-REACH regulations. ture of this product is still Korean Importer of Record has substance.
China IECSC Taiwan TCSI	Not in compliance with tOn the inventory, or in c	the inventory compliance with the inventory

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NFPA Classification	: Health Hazard: 2 Fire Hazard: 2 Reactivity Hazard: 0	2
		2 0
Further information		
Legacy SDS Number	: 25500	

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	LD50	Lethal Dose 50%
	Government Industrial Hygienists		
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effe
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agenc
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupation 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 Concentra
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 Substar
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recov 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	TSCA	Toxic Substance Control Act

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	New Chemical Substances		
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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