

## Marlex® 9503HF Polyethylene

Version 1.7

Revision Date 2024-10-23

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2020/878

:

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

1.1

#### **Product information**

Product Name Material

Marlex® 9503HF Polyethylene : 1038879, 1038880, 1038734, 1038876, 1038732, 1038663, 1038672, 1038665, 1038670, 1038875, 1040897, 1040898

#### **EC-No.Registration number**

Chemical name	CAS-No.	Legal Entity
	EC-No.	Registration number
	Index No.	5
Ethylene	74-85-1	
	200-815-3	Chevron Phillips Chemical Company LP
	601-010-00-3	01-2119462827-27-0004
Ethylene	74-85-1	
	200-815-3	Chevron Phillips Chemicals International NV
	601-010-00-3	01-2119462827-27-0271
1-Hexene	592-41-6	
	209-753-1	Chevron Phillips Chemical Company LP 01-2119475505-34-0005
1-Hexene	592-41-6	
	209-753-1	Chevron Phillips Chemicals International NV 01-2119475505-34-0021
Oxirane	75-21-8	
	200-849-9	Chevron Phillips Chemical Company LP
	603-023-00-X	01-2119432402-53-0434

Details of the supplier of the safety data sheet

Company	:	Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77280
		The Woodlands, TX 77380

SDS Number:10000000611

<sup>1.3</sup> 

Local : Chevron Phillips Chemicals International N.V. Airport Plaza (Slockholm Building) Leonardo Da Vincilaan 19 1831 Diegem Belgium SDS Requests: (800) 852-5530 Responsible Party: Product Safety Group Email:sds@cpchem.com 4 Emergency telephone: Health: 866.442.9628 (North America) 1.832 813.4984 (International) Transport: CHEMTREC 800.424.9300 or 703.527.3887(int!) Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 Mexico CHEMTREC 05.000 er 703.527.3887(int!) Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 Mexico CHEMTREC 05.000 er 703.527.3887(int!) Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 Mexico CHEMTREC 05.000.621.9331 (24 hours) South America SDS-Cotec Inside Brazil: 450.19.3467.1600 Argentina: +(64)-1159839431 EUROPE: BIG 4-32.14.584545 (phone) or +32.14583516 (telefax) Austria: VIZ +431 406 43 43 (24 hours/day, 7 days/week) Belgium: 3581 2348 342 (24 hours/day, 7 days/week) Bulgara: +359 29154 233 Croatia: -3581 2348 24 (24 hours/day, 7 days/week) Bulgara: +359 29154 233 Croatia: -3581 2348 24 (24 hours/day, 7 days/week) Croprus: 1401 Creach Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402 Demmark: Danish Poison Center (Gifflinjen): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Financi: 0801 47 111 09 471 9777 (24 hours/day, 7 days/week) Creace: (0030) 210779777 (24 hours/day, 7 days/week) Celand: 543 2222 (24 hours/day, 7 days/week) Iceland: 543 225 (250) CENTER ROME – Poicilanico Tapediaera Magendera 1-439 081 7472870; POISON CENTER ROME – Azienda Ospedaliera Magendera 1-439 081 7472870; POISON CENTER ROME – Azien	rsion 1.7	Revision Date 2024-10-2
Responsible Pariy: Product Safety Group Email:sds@cpchem.com 4 Emergency telephone: Health: 866.442.9628 (North America) 1.832.813.4984 (International) Transport: CHEMTREC 800.424.9300 or 703.527.3887(int!) Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 Mexico CHEMTREC 9180.424.9300 or 703.527.3887(int!) Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 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 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week) Belgium: 070 245 245 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: +3551 2348 342 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: *1351 2348 342 (24 hours/day, 7 days/week) Cyptus: 1401 Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402 Demmark: Danish Poison Center (Gittlinie): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Finiand: 080 432.14.584545 (phone) or +32.14583516 (telefax) Finiand: 080 432.14.584545 (phone) or +32.14583516 (telefax) Finiand: 080 432.14.584545 (phone) or +32.14583516 (telefax) Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Trai-39 06 3053433; POISON CENTER ROME – Policinico: "Agostino Germell", Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME – Osipedalera Niguarda Ca' Grande Tel. +39 02 66101029; POISON CENTER ROME – Policinico: "Agostino Germell", Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME – Policinico: "Agostino Germell", Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME – Policinico: "Umbertot Tel. +39 06847 8000 Tel +39 06 6859776; POISON CENTER ROME – Policinico: "Umbertot Tel. +39 068 1732236; POISON CENTER RAPLA – Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER RAPLA – Azienda Ospedaliera Universitari	Local :	Airport Plaza (Stockholm Building) Leonardo Da Vincilaan 19 1831 Diegem
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# Marlex® 9503HF Polyethylene

Ver	sion 1.7			Revis	sion Date 2024-10-23
	Portugal: CIAV phon Romania: +4021318 Slovakia: +421 2 547 Slovenia: Phone nun	e number: +35 <sup>°</sup> 3606 77 4166 nber: 112 rgency Telepho eek)	one Number of Spanish F		34 91 562 04 20 (24
	Responsible Departmer E-mail address Website	: SDS	uct Safety and Toxicolog @CPChem.com CPChem.com	y Group	
			Do not use this material i body or permanent conta		
	human body or contact	with internal bo hillips Chemica	lications involving brief o dy fluids or tissues unles I Company LP or its lega ated use.	s the material ha	as been provided
	express warranty or imp	olied warranty c	P and its legal affiliates n oncerning the suitability of ternal body fluids or tissu	of this material fo	
SEC	TION 2: Hazards identi	fication			
2.1	Classification of the se REGULATION (EC) No Not a hazardous substa	1272/2008	<b>ixture</b> according to Regulation	(EC) No 1272/20	008.
2.2	Labeling (REGULATIO Not a hazardous substa		<b>2/2008)</b> according to Regulation	(EC) No 1272/20	008.
SEC	TION 3: Composition/i	nformation on	ingredients		
3.1 Sub	- 3.2 stance or Mixture Hazardous ingredients	5			
	Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]	Specific Conc. Limits, M-factors and ATEs
	Polyethylene Hexene Copolymer	25213-02-9		99 - 100	
	Contains no hazardous	ingredients acc	ording to GHS. :		
SDS	8 Number:100000000611		3/1	3	

SAFETY DATA SHEET

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**SECTION 4: First aid measures** 

#### 4.1

#### **Description of first-aid measures**

If inhaled	:	Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
In case of skin contact	:	If the molten material gets on skin, quickly cool in water. Seek immediate medical attention. Do not try to peel the solidified material from the skin or use solvents or thinners to dissolve it.
In case of eye contact	:	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed	:	Do not induce vomiting without medical advice.

# 4.2 Most important symptoms and effects, both acute and delayed4.3 Indication of any immediate medical attention and special treatment needed

#### SECTION 5: Firefighting measures

	······································	_	
	Flash point	:	No data available
	Autoignition temperature	:	No data available
5.1	Extinguishing media		
	Suitable extinguishing media	:	Water. Water mist. Dry chemical. Carbon dioxide (CO2). Foam. If possible, water should be applied as a spray from a fogging nozzle since this is a surface burning material. The application of high velocity water will spread the burning surface layer. Avoid the use of straight streams that may create a dust cloud and the risk of a dust explosion. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
5.2	<b>Special hazards arising from</b> Specific hazards during fire fighting		
5.3	<b>Advice for firefighters</b> Special protective equipment for fire-fighters Further information	:	Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary. This material will burn although it is not easily ignited.
	Fire and explosion protection	:	Treat as a solid that can burn. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
	Hazardous decomposition	:	Normal combustion forms carbon dioxide, water vapor and may
SDS	S Number:100000000611		4/13

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ver	rlex® 9503HF Polyeth sion 1.7	Revision Date 2024-10-2
	products	produce carbon monoxide, other hydrocarbons and hydrocarbon oxidation products (ketones, aldehydes, organic acids) depending on temperature and air availability. Incomplete combustion can also produce formaldehyde.
SEC	CTION 6: Accidental release mo	easures
5.1	Personal precautions, protec	tive equipment and emergency procedures
• •	Personal precautions :	Sweep up to prevent slipping hazard. Avoid breathing dust. Avoid dust formation.
5.2	Environmental precautions	
	Environmental precautions :	Do not contaminate surface water. Prevent product from entering drains.
6.3	Methods and materials for co Methods for cleaning up :	
	Additional advice :	Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
6.4	Reference to other sections	
SEC	CTION 7: Handling and storage	
7.1	Precautions for safe handling Handling	
	Advice on safe handling :	Use good housekeeping for safe handling of the product. Keep out of water sources and sewers. Spilled pellets may create a slipping hazard. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by themselves be sufficient. At elevated temperatures (>350°F, >177°C), polyethylene can release vapors and gases, which are irritating to the mucous membranes of the eyes, mouth, throat, and lungs. These substances may include acetaldehyde, acetone, acetic acid, formic acid, formaldehyde and acrolein. Based on animal data and limited epidemiological evidence, formaldehyde has been listed as a carcinogen. Following all recommendations within this SDS
		should minimize exposure to thermal processing emissions.
7.2	Advice on protection : against fire and explosion	

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### Conditions for safe storage, including any incompatibilities

#### Storage

Requirements for storage areas and containers	:	Keep in a dry place. Keep in a well-ventilated place.
Advice on common storage	:	Do not store together with oxidizing and self-igniting products.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.2

#### Exposure controls Engineering measures

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

#### Personal protective equipment

Res	spiratory protection :	No respiratory protection is normally required. If heated material generates vapor or fumes that are not adequately controlled by ventilation, wear an appropriate respirator. Use the following elements for air-purifying respirators: Organic Vapor and Formaldehyde. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection. Dust safety masks are recommended when the dust concentration is excessive.
Eye	e protection :	Use of safety glasses with side shields for solid handling is good industrial practice. If this material is heated, wear chemical goggles or safety glasses with side shields or a face shield. If there is potential for dust, use chemical goggles.
Ski	n and body protection :	At ambient temperatures use of clean and protective clothing is good industrial practice. If the material is heated or molten, wear thermally insulated, heat-resistant gloves that are able to withstand the temperature of the molten product. If this material is heated, wear insulated clothing to prevent skin contact if engineering controls or work practices are not adequate.
SECTIO	N 9: Physical and chemical	properties
9.1 Infe	ormation on basic physical	and chemical properties
Ар	pearance	
For	rm :	Pellets
SDS Nu	Imber:100000000611	6/13

# Marlex® 9503HF Polyethylene

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ion 1.7	Revision Date 2024-10
Physical state Color Odor Odor Threshold	<ul> <li>solid</li> <li>Opaque</li> <li>Mild to no odor</li> <li>No data available</li> </ul>
Safety data	
Flash point	: No data available
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Autoignition temperature	: No data available
Thermal decomposition	: Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing.
рН	: Not applicable
Melting point/ range	: 90-140°C (194-284°F)
Freezing point	Not applicable
Initial boiling point and boiling	: Not applicable
range Vapor pressure	: Not applicable
Relative density	: Not applicable
Density	: 0,91 - 0,97 g/cm3 Please refer to the Technical Data Sheet (TDS) for more detailed information relating to the nominal physical properties, including density, of this polyethylene resin grade.
Water solubility	: negligible
Partition coefficient: n-	: No data available
octanol/water Solubility in other solvents	: No data available
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Relative vapor density	: Not applicable
Evaporation rate	: Not applicable

#### 10.1

SDS Number:10000000611

Marlex® 9503HF Polyet	SAFETY DATA SHEET
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Reactivity	: This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure.
10.2	
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
10.3	
Possibility of hazardous read	ctions
10.4 Conditions to avoid	: Avoid prolonged storage at elevated temperature.
10.5 Materials to avoid	: Avoid contact with strong oxidizing agents.
Thermal decomposition	: Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing.
10.6 Hazardous decomposition products	: Normal combustion forms carbon dioxide, water vapor and may produce carbon monoxide, other hydrocarbons and hydrocarbon oxidation products (ketones, aldehydes, organic acids) depending on temperature and air availability. Incomplete combustion can also produce formaldehyde.
Other data	: No decomposition if stored and applied as directed.
SECTION 11: Toxicological inform	nation
11.1	
Information on toxicological	effects
Marlex® 9503HF Polyethylen Acute oral toxicity	
Marlex® 9503HF Polyethylen Acute inhalation toxicity	
Marlex® 9503HF Polyethylen Acute dermal toxicity	
Marlex® 9503HF Polyethylen Skin irritation	e : No skin irritation
Marlex® 9503HF Polyethylen Eye irritation	e : No eye irritation

Marlex® 9503HF Polyethy	SAFETY DATA SHEET				
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Marlex® 9503HF Polyethylene Sensitization	Did not cause sensitization on laboratory animals.				
11.2 Information on other hazards					
Marlex® 9503HF Polyethylene Further information	This product contains POLYMERIZED OLEFINS. During thermal processing (>350°F, >177°C) polyolefins can release vapors and gases (aldehydes,ketones and organic acids) which are irritating to the mucous membranes of the eyes, mouth, throat, and lungs. Generally these irritant effects are all transitory. However, prolonged exposure to irritating off-gases can lead to pulmonary edema. Formaldehyde (an aldehyde) has been classified as a carcinogen based on animal data and limited epidemiological evidence.				
Endocrine disrupting : properties					
SECTION 12: Ecological informatio	n				
12.1 Toxicity					
Ecotoxicity effects					
12.2 Persistence and degradability					
Biodegradability :	This material is not expected to be readily biodegradable.				
12.3 Bioaccumulative potential Elimination information (persistence and degradability)					
Bioaccumulation :	Does not bioaccumulate.				
12.4 Mobility in soil					
Mobility :	The product is insoluble and floats on water.				
12.5 Results of PBT and vPvB asse	sement				
12.6 Endocrine disrupting propertie					
Endocrine disrupting : properties					
12.7 Other adverse effects					
Additional ecological : information	This material is not expected to be harmful to aquatic organisms., Fish or birds may eat pellets which may obstruct their digestive tracts.				
12.8	0/10				
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Additional Information

**Ecotoxicology Assessment** 

#### **SECTION 13: Disposal considerations**

#### 13.1

#### Waste treatment methods

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.

#### **SECTION 14: Transport information**

#### 14.1 - 14.7

#### 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)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

#### IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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

NÒT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROÚS 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.

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OF DANGEROUS GOODS BY I	
NOT REGULATED AS A HAZ TRANSPORTATION BY THIS	ZARDOUS MATERIAL OR DANGEROUS GOODS FOR S AGENCY.
Maritime transport in bulk acc	ording to IMO instruments
ECTION 15: Regulatory informatic	วท
5.1	
Safety, nealth and environmen National legislation	tal regulations/legislation specific for the substance or mixture
	20/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the Council on the Registration, Evaluation, Authorisation and H)
Water hazard class : (Germany)	nwg not water endangering
5.2	
Notification status	
Europe REACH	<ul> <li>This mixture contains only ingredients which have been registered according to Regulation (EU) No. 1907/2006 (REACH).</li> </ul>
Switzerland CH INV United States of America (USA)	<ul> <li>On the inventory, or in compliance with the inventory</li> <li>On or in compliance with the active portion of the</li> </ul>
TSCA	TSCA inventory
Canada DSL	: All components of this product are on the Canadian DSL
Australia AIIC	: On the inventory, or in compliance with the inventory
New Zealand NZIoC Japan ENCS	<ul><li>On the inventory, or in compliance with the inventory</li><li>On the inventory, or in compliance with the inventory</li></ul>
Korea KECI	: A substance(s) in this product was not registered,
	notified to be registered, or exempted from registration
	by CPChem according to K-REACH regulations.
	Importation or manufacture of this product is still permitted provided the Korean Importer of Record has
	themselves notified the substance or the exported
	amount does not exceed the minimum threshold
	quantity of the non-registered substance(s).
Philippines PICCS	: On the inventory, or in compliance with the inventory
Taiwan TCSI	: On the inventory, or in compliance with the inventory
China IECSC	: On the inventory, or in compliance with the inventory

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#### **SECTION 16: Other information**

NFPA Classification	: Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0	
Further information Legacy SDS Number	: 240370	

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		
AIIC	Australian Inventory of Industrial Chemicals	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%	ATE	Acute toxicity estimate