

Marlex® HXM 50100S Polyethylene

Version 1.0

Revision Date 2024-07-15

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

Material	 Marlex® HXM 50100S Polyethylene 1130572, 1130573, 1130541, 1130540, 1130539, 1130538
Company	 Chevron Phillips Singapore Chemicals (Private) Limited 500 Ayer Merbau Road Jurong Island Singapore 628286 SDS Requests: (800) 852-5530 Responsible Party: Product Safety Group Email:sds@cpchem.com
Asia: CHEMWATCH (+	
	otec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
Argentina: +(54)-11598 EUROPE: BIG +32.14 Austria: VIZ +43 1 406 Belgium: 070 245 245 Bulgaria: +359 2 9154 Croatia: +3851 2348 34 Cyprus: 1401	otec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 339431 .584545 (phone) or +32.14583516 (telefax) 43 43 (24 hours/day, 7 days/week) (24 hours/day, 7 days/week) 233 42 (24 hours/day, 7 days/week)
Argentina: +(54)-11598 EUROPE: BIG +32.14. Austria: VIZ +43 1 406 Belgium: 070 245 245 Bulgaria: +359 2 9154 Croatia: +3851 2348 34 Cyprus: 1401 Czech Republic: Toxice Denmark: Danish Poise Estonia: BIG +32.14.58 Finland: 0800 147 111 France: ORFILA numb Germany: BIG +32.14. Greece: (0030) 210779 Hungary: +36-80-201-7 Iceland: 543 2222 (24)	otec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 339431 .584545 (phone) or +32.14583516 (telefax) 43 43 (24 hours/day, 7 days/week) (24 hours/day, 7 days/week) 233

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Italy: POISON CENTER MILAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 66101029; POISON CENTER ROME - Policlinico "Agostino Gemelli", Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME - Ospedale Pediatrico Bambino Gesù Tel. +39 06 68593726; POISON CENTER ROME – Policlinico "Umberto I" Tel. +39 06 4997 8000; POISON CENTER FOGGIA - Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER NAPLES – Azienda Ospedaliera "Antonio Cardarelli" Tel. +39 081 7472870; POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055 7947819; POISON CENTER PAVIA - IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 24444; POISON CENTER BERGAMO - Azienda Ospedaliera "Papa Giovanni XXIII" Tel. 800 883 300; POISON CENTER VERONA - Azienda Ospedaliera Universitaria integrata Tel. 800 011 858: Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 67042473. (24 hours.) Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Lithuania: +370 (85) 2362052 Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week) Malta: +356 2395 2000 The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week) Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Portugal: CIAV phone number: +351 800 250 250 Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112 Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week) Sweden: 112 – ask for Poisons Information : Product Safety and Toxicology Group Responsible Department E-mail address SDS@CPChem.com Website www.CPChem.com : MEDICAL APPLICATION CAUTION: Do not use this material in medical applications involving permanent implantation in the human body or permanent contact with internal body fluids or tissues fluids or tissues. Do not use this material in medical applications involving brief or temporary implantation in the human body or contact with internal body fluids or tissues unless the material has been provided directly from Chevron Phillips Chemical Company LP or its legal affiliates under an agreement which expressly acknowledges the contemplated use. Chevron Phillips Chemical Company LP and its legal affiliates makes no representation, promise, express warranty or implied warranty concerning the suitability of this material for use in implantation in the human body or in contact with internal body fluids or tissues.

SECTION 2: Hazards identification

	nce or mixture ed in accordance with the hazard communication standard 29 CFR Is contain all the information as required by the standard.
Classification	: Combustible dust
Labeling	
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Signal Word	: Warning		
Hazard Statements	: May form combustible dust concentrations in air. While this product may not be a combustible dust as sold, further processing or handling may form combustible dust concentration in air.		
Potential Health Effects			
Physical Hazards		r form combustible dust ermal processing at elevated	
Inhalation	respiratory irritation. Fumes generated during the	from this material may cause ermal processing may cause	
Skin	significant irritation. Contact with the skin is not response.	expected to cause prolonged or expected to cause an allergic ermal burns may result from contact.	
Eyes	discolorations, swelling, andContact with the eyes may or action.		
Ingestion		heated material contacts eye. not a likely route of exposure.	
Carcinogenicity:			
IARC		present at levels greater than or	
	equal to 0.1% is identified as human carcinogen by IARC.	probable, possible or confirmed	
NTP	No ingredient of this product	present at levels greater than or a known or anticipated carcinogen	
ECTION 3: Composition/inf	ormation on ingredients		
Component	CAS-No.	Weight %	
Component Polyethylene Hexene Cop	CAS-No. polymer 25213-02-9	Weight % 99 - 100	
	polymer 25213-02-9		
Polyethylene Hexene Cop	polymer 25213-02-9		
Polyethylene Hexene Cop	res : Move to fresh air in case of		
Polyethylene Hexene Cop	res : Move to fresh air in case of fumes from overheating or call a physician. : If the molten material gets	99 - 100	

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		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.
TION 5: Firefighting measu	res	
Flash point	:	No data available
Autoignition temperature	:	No data available
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.
Specific hazards during fire fighting	:	Risks of ignition followed by flame propagation or secondary explosions can be caused by the accumulation of dust, e.g. on floors and ledges.
Special protective equipment for fire-fighters	:	Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	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 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.
TION 6: Accidental release	me	asures
Personal precautions	:	Sweep up to prevent slipping hazard. Avoid breathing dust. Avoid dust formation.
Environmental precautions	:	Do not contaminate surface water. Prevent product from entering drains.
Methods for cleaning up	:	Clean up promptly by sweeping or vacuum.
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
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dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

SECTION 7: Handling and storage

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.
Advice on protection against fire and explosion	:	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.
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

Ingredients with workplace control parameters

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Components	Basis	Value	Control parameters	Note
Nuisance Dust	OSHA Z-3	TWA	15 mg/m3	Total dust
	OSHA Z-3	TWA	5 mg/m3	(respirable dust)

Control as Particulate Not Otherwise Classified (PNOC). The ACGIH Guideline* for respirable dust is 3.0 mg/m3 and 10.0 mg/m3 for total dust. The OSHA PEL for respirable dust is 5.0 mg/m3 and 15.0 mg/m3 for total dust.

* This value is for inhalable (total) particulate matter containing no asbestos and < 1.0% crystalline silica.

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.

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Respiratory 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 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.
Skin 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.
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TION 9: Physical and chen	· · · · · · · · · · · · · · · · · · ·
	nical properties
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	nical properties
Information on basic phys Appearance Form	nical properties sical and chemical properties : Pellets
Information on basic phys Appearance Form Physical state	nical properties sical and chemical properties : Pellets : solid
Information on basic phys Appearance Form Physical state Color	nical properties sical and chemical properties : Pellets : solid : Opaque
Information on basic phys Appearance Form Physical state	nical properties sical and chemical properties : Pellets : solid
Information on basic phys Appearance Form Physical state Color Odor	nical properties sical and chemical properties : Pellets : solid : Opaque : Mild to no odor
Information on basic phys Appearance Form Physical state Color Odor Odor Threshold	nical properties sical and chemical properties : Pellets : solid : Opaque : Mild to no odor
Information on basic phys Appearance Form Physical state Color Odor Odor Threshold Safety data	nical properties sical and chemical properties : Pellets : solid : Opaque : Mild to no odor : No data available
Information on basic phys Appearance Form Physical state Color Odor Odor Threshold Safety data Flash point	nical properties sical and chemical properties : Pellets : solid : Opaque : Mild to no odor : No data available : No data available
Information on basic phys Appearance Form Physical state Color Odor Odor Threshold Safety data Flash point Lower explosion limit	nical properties sical and chemical properties : Pellets : solid : Opaque : Mild to no odor : No data available : No data available : Not applicable
Information on basic phys Appearance Form Physical state Color Odor Odor Threshold Safety data Flash point Lower explosion limit Upper explosion limit	nical properties sical and chemical properties : Pellets : solid : Opaque : Mild to no odor : No data available : No data available : Not applicable : Not applicable
Information on basic phys Appearance Form Physical state Color Odor Odor Threshold Safety data Flash point Lower explosion limit Upper explosion limit Autoignition temperature	nical properties sical and chemical properties : Pellets : solid : Opaque : Mild to no odor : No data available : No data available : Not applicable : Not applicable : No data available : Low molecular weight hydrocarbons, alcohols, aldehydes,

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Freezing point		Not applicable
Initial boiling point and boiling range	:	Not applicable
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
SECTION 10: Stability and reactive	vity	1
Reactivity	:	This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Chemical stability	:	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous rea	ctio	ons
Conditions to avoid	:	Avoid prolonged storage at elevated temperature.
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.

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.
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Other data	: No decomposition if stored and applied as directed.			
SECTION 11: Toxicological inform	nation			
Marlex® HXM 50100S Polyeth Acute oral toxicity				
Marlex® HXM 50100S Polyeth Acute inhalation toxicity				
Marlex® HXM 50100S Polyeth Acute dermal toxicity				
Marlex® HXM 50100S Polyeth Skin irritation	ylene : No skin irritation			
Marlex® HXM 50100S Polyeth Eye irritation	ylene : No eye irritation			
Marlex® HXM 50100S Polyeth Sensitization	ylene : Did not cause sensitization on laboratory animals.			
Marlex® HXM 50100S Polyeth 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 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. 			
SECTION 12: Ecological informati	ion			
Ecotoxicity effects				
Biodegradability	: This material is not expected to be readily biodegradable.			
Elimination information (persist	ence and degradability)			
Bioaccumulation	: Does not bioaccumulate.			
Mobility	: The product is insoluble and floats on water.			
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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.

Ecotoxicology Assessment

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.

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) 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)) 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)

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

Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

National legislation	
SARA 311/312 Hazards	: Combustible dust
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 SARA 304 Reportable Quantity	 No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. This material does not contain any components with a section 304 EHS RQ.
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	
Potential Class	roduct neither contains, nor was manufactured with a Class I or II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR ıbpt. A, App.A + B).
This product does not contai Act Section 112 (40 CFR 61)	n any hazardous air pollutants (HAP), as defined by the U.S. Clean Air).
	n any chemicals listed under the U.S. Clean Air Act Section 112(r) for on (40 CFR 68.130, Subpart F).
This product does not contai Intermediate or Final VOC's	n any chemicals listed under the U.S. Clean Air Act Section 111 SOCN (40 CFR 60.489).
US State Regulations	
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Pennsylvania Right To Know				
:	No components are subject to the Pennsylvania Right to Know Act.			
New Jersey Right To Know :	No components are subject to the New Jersey Right to Know Act.			
California Prop. 65 : Components	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 Switzerland CH INV United States of America (USA) TSCA Canada DSL Other AICS New Zealand NZIoC Japan ENCS Korea KECI	 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On or in compliance with the active portion of the TSCA inventory All components of this product are on the Canadian DSL 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 Che inventory, or in compliance with the inventory 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 China IECSC Taiwan TCSI	 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 			
SECTION 16: Other information				
NFPA Classification :	Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0			
Further information				
Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.				
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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%
AIIC	Australian Inventory of Industrial Chemicals	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%	ATE	Acute toxicity estimate