SAFETY DATA SHEET



Marlex[®] HXM 50100 Polyethylene

Version 1.8

Revision Date 2023-11-27

MSDS number: AA00974-0000000431

Product Name Material	:	Marlex® HXM 50100 Polyethylene 1118576, 1018745, 1018747, 1070714, 1093199, 1080384, 1086319, 1018013, 1018017, 1017207, 1025207, 1018746, 1018748, 1019312, 1019315, 1019314, 1019313, 1019310, 1019311, 1018749
Recommended use of the product	:	Manufacture of plastics products
Restrictions on use	:	None known.
Address	:	Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
Address	:	CHEVRON PHILLIPS CHEMICALS ASIA PTE. LTD. C/O DONG WOO CORPORATION #B-2601,JEONGJAIL-RO, BUNDANG-GU,SEONGNAMI-SI, GYEONGGI-DO,13557 SOUTH KOREA Telephone no.: +612-9186-1132
Emergency telephone:		
Mexico CHEMTREC 01- South America SOS-Cote Argentina: +(54)-115983	iona 00 o 12 9 800- ec In 9431	l) r 703.527.3887(int'l) 186 1132) China: 0532 8388 9090 681-9531 (24 hours) Iside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
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Responsible Department : Product Safety and Toxicology Group E-mail address : SDS@CPChem.com Website : www.CPChem.com Appointees : 회사명: 리이치24시코리아㈜. 주소: 서울특별시 강남구 강남대로 94길 34,4층 전화: + 82-02-6245-1610 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.	Belgium: 070 245 245 (24 H Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (2 Cyprus: 1401 Czech Republic: Toxicologi Denmark: Danish Poison C Estonia: BIG +32.14.58454 Finland: 0800 147 111 09 France: ORFILA number (II Germany: BIG +32.14.58454 Greece: (0030) 210779377 Hungary: +36-80-201-199 (Iceland: 543 2222 (24 hour Ireland: BIG +32.14.584545 Italy: BIG +32.14.584545 Italy: BIG +32.14.584545 (p Latvia: State Fire and Resc Poisoning and Drug Inform 67042473. (24 hours.) Liechtenstein: BIG +32.14.5 Lithuania: +370 (85) 23620 Luxembourg: (+352) 8002 5 Malta: +356 2395 2000 The Netherlands: NVIC: +3 Norway: 22 59 13 00 (24 ho Poland: BIG +32.14.584545 Portugal: CIAV phone num Romania: +40213183606 Slovakia: +421 2 5477 416 Slovenia: Phone number: 1	24 hours/day, 7 days/week) ical Information Center +420 224 919 293, +420 224 915 402 ienter (Giftlinjen): +45 8212 1212 5 (phone) or +32.14583516 (telefax) 471 977 (24 hours/day) NRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) 545 (phone) or +32.14583516 (telefax) 7 (24 hours/day, 7 days/week) (24 hours/day, 7 days/week) 5 (phone) or +32.14583516 (telefax) bone) or +32.14583516 (telefax) cue Service, phone number: 112; Toxicology and Sepsis Clinic nation Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 584545 (phone) or +32.14583516 (telefax) 52 5500 (24 hours/day, 7 days/week) 11 (0)88 755 8000 purs/day, 7 days/week) 5 (phone) or +32.14583516 (telefax) ber: +351 800 250 250 6 12 7 Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24
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.	E-mail address Website	 SDS@CPChem.com www.CPChem.com 회사명: 리이치24시코리아㈜. 주소: 서울특별시 강남구 강남대로 94길 34,4층
	permanent implantation in the fluids or tissues. Do not use this material in me human body or contact with in directly from Chevron Phillips	human body or permanent contact with internal body fluids or tissues dical applications involving brief or temporary implantation in the ternal body fluids or tissues unless the material has been provided Chemical Company LP or its legal affiliates under an agreement which
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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

Hazard classification

Standards for classification and labeling of chemical substances and material safety data sheet (ministry of employment and labor public notice No. 2023-9)

Classification

Not applicable

Warning label elements including precautionary statements

Symbol(s) Signal Word	: : Not applicable
Hazard Statements	: Not applicable
Precautionary Statements	: Not applicable

Other hazards which do	:	None
not result in classification		

SECTION 3: Composition/information on ingredients

Common name	Synonyms	CAS-No.	Concentration	KECI Number
Polyethylene Hexene Copolymer	Polyethylene Hexene Copolymer	25213-02-9	99 % - 100%	KE-13670

SECTION 4: First aid measures

In case of eye contact : In the case of contact with eyes, rinse immediately with plenty

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		of water and seek medical advice.
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.
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.
If swallowed	:	Do not induce vomiting without medical advice.
Other cautions for Doctors		
Symptoms	:	No data available.
Risks	:	No data available.
Treatment	:	No data available.
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	:	Normal combustion forms carbon dioxide, water vapor and may
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products	produce carbon monoxide, other hydrocarbons and hydrocarbon oxidation products (ketones, aldehydes, organi acids) depending on temperature and air availability. Incomplete combustion can also produce formaldehyde.	С
CTION 6: Accidental release	neasures	
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. Av dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).	
CTION 7: Handling and stora	e	
Handling		
Advice on safe handling	: Use good housekeeping for safe handling of the product. Ke out of water sources and sewers. Spilled pellets may create slipping hazard. Electrostatic charge may accumulate and create a hazardou condition when handling this material. To minimize this haza	a
	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.	ard, , de a
Advice on protection against fire and explosion	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	ard, ;, de a
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against fire and explosion	 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. Treat as a solid that can burn. Avoid generating dust; fine di dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion 	ard, ;, de a

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Uses advised against	:	None known.		
Advice on common storage	:	Do not store together with oxidizing and self-igniting products.		
Specific Use	:	Manufacture of plastics products		
SECTION 8: Exposure controls	s/per	sonal protection		
Chomical exposure stand	arde	, biological exposure standards, etc.		
Consider the potential hazar activities, and other substan personal protective equipme exposure to harmful levels of recommended. The user sh	rds o aces i ent. 1 of this nould ion is	f this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and selecting If engineering controls or work practices are not adequate to prevent is material, the personal protective equipment listed below is read and understand all instructions and limitations supplied with is usually provided for a limited time or under certain circumstances.		
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.		
SECTION 9: Physical and cher	nical	properties		
Information on basic phys	Information on basic physical and chemical properties			
Physical state	:	solid		
	:	Opaque		
Color				
Color Odor Odor Threshold	:	: Mild to no odor : No data available		

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	рН	:	Not applicable
	Melting point/range	:	90-140°C (194-284°F)
	Melting point/freezing point		Not applicable
	Initial boiling point and boiling range	:	Not applicable
	Flash point	:	No data available
	Evaporation rate	:	Not applicable
	Flammability (solid, gas)	:	No data available
	Lower explosion limit	:	Not applicable
	Upper explosion limit	:	Not applicable
	Vapor pressure	:	Not applicable
	Solubility	:	negligible
	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.
	Vapor density	:	Not applicable
	Partition coefficient: n-	:	No data available
	octanol/water Autoignition temperature	:	No data available
	Decomposition temperature	:	Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing.
	Viscosity, kinematic	:	Not applicable
	Solubility in other solvents	:	No data available
	Viscosity, dynamic	:	Not applicable
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SE(CTION 10: Stability and reactiv	lty	

SECTION 10: Stability and reactivity

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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	ctions				
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.				
Other data	: No decomposition if stored and applied as directed.				
ECTION 11: Toxicological infor	CTION 11: Toxicological information				
Information on exposure rou					
Information on exposure rou Marlex® HXM 50100 Polyeth Acute oral toxicity	utes lylene				
Marlex® HXM 50100 Polyeth	utes ylene : Presumed Not Toxic ylene				
Marlex® HXM 50100 Polyeth Acute oral toxicity Marlex® HXM 50100 Polyeth	utes hylene : Presumed Not Toxic hylene : Presumed Not Toxic hylene				
Marlex® HXM 50100 Polyeth Acute oral toxicity Marlex® HXM 50100 Polyeth Acute inhalation toxicity Marlex® HXM 50100 Polyeth	utes ylene Presumed Not Toxic ylene Presumed Not Toxic ylene Presumed Not Toxic ylene				
Marlex® HXM 50100 Polyeth Acute oral toxicity Marlex® HXM 50100 Polyeth Acute inhalation toxicity Marlex® HXM 50100 Polyeth Acute dermal toxicity Marlex® HXM 50100 Polyeth	utes hylene : Presumed Not Toxic hylene : Presumed Not Toxic hylene : Presumed Not Toxic hylene : No skin irritation hylene				
Marlex® HXM 50100 Polyeth Acute oral toxicity Marlex® HXM 50100 Polyeth Acute inhalation toxicity Marlex® HXM 50100 Polyeth Acute dermal toxicity Marlex® HXM 50100 Polyeth Skin corrosion or irritation	utes hylene : Presumed Not Toxic hylene : Presumed Not Toxic hylene : Presumed Not Toxic hylene : No skin irritation hylene : No eye irritation				

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Respiratory Sensitization :	Did not cause sensitization on laboratory animals.
Marlex® HXM 50100 Polyethyle Skin sensitization	ene No data available
Marlex® HXM 50100 Polyethyle Repeated dose toxicity :	ne No data available
Marlex® HXM 50100 Polyethyle Germ cell mutagenicity (in : vitro) Specific Target Organ Toxicity (Single Exposure)	
Specific Target Organ Toxicity (Repeated Exposure)	No adverse effects expected
	No adverse effects expected
Marlex® HXM 50100 Polyethyle 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.
SECTION 12: Ecological informatio	n
Ecological Toxicity	
Persistence and : degradabilityPersistence and degradability	This material is not expected to be readily biodegradable.
Bioaccumulative :	Does not bioaccumulate.
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Mobility	: The product is insoluble and floats on water.
Other adverse effects	: 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	
Short-term (acute) aquatic hazard	: This product has no known ecotoxicological effects.
Long-term (chronic) aquatic hazard	: This product has no known ecotoxicological effects.

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.

UN Number	:	not regulated	
UN Product Shipping Name	:	Not regulated as a dangerous good	
Hazard Class	•	Not applicable	
Packing Group	:	Not applicable	
Marine Pollutant	:	Not applicable	
Special Safety Measures on Mode of Transport	:	No data available	

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

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

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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)

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

Regulation under the Occupational Safety and Health Act

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A Material Safety Datasheet (MSE ISHA.	OS) for	this product is not required according to article 41 of the
Regulations by the Waste Management Act	:	Polyethylene Hexene Copolymer: Designated Waste
Regulations by other domestic	and fo	reign laws
Europe REACH	:	On the inventory, or in compliance with the inventory
Switzerland CH INV	:	On the inventory, or in compliance with the inventory
United States of America (USA)	:	On or in compliance with the active portion of the
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	:	On the inventory, or in compliance with the inventory
Japan ENCS	:	On the inventory, or in compliance with the inventory
Philippines PICCS	:	On the inventory, or in compliance with the inventory
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).
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

Source of data	:	Korea. GHS based classification	
Date of initial writing	:	2023-06-15	
Revision number	:	1	
Last revision date	:	2023-11-27	
NFPA Classification	:	Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0	



Other information

None.

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.

Key or legend to abbreviations and acronyms used in the safety data sheet				
ACGIH	American Conference of	LD50	Lethal Dose 50%	
	Government Industrial Hygienists			
AIIC	Australian Inventory of Industrial	LOAEL	Lowest Observed Adverse Effect	
	Chemicals		Level	
DSL	Canada, Domestic Substances	NFPA	National Fire Protection Agency	
	List			
NDSL	Canada, Non-Domestic	NIOSH	National Institute for Occupational	
	Substances List		Safety & Health	
CNS	Central Nervous System	NTP	National Toxicology Program	
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of	
			Chemicals	
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect	
			Level	

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EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure	OSHA	Occupational Safety & Health
	Scenario Tool		Administration
EOSCA	European Oilfield Specialty	PEL	Permissible Exposure Limit
	Chemicals Association		
EINECS	European Inventory of Existing	PICCS	Philippines Inventory of
	Chemical Substances		Commercial Chemical Substances
MAK	Germany Maximum Concentration	PRNT	Presumed Not Toxic
	Values		
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	TLV	Threshold Limit Value
	on Cancer		
IECSC	Inventory of Existing Chemical	TWA	Time Weighted Average
	Substances in China		
ENCS	Japan, Inventory of Existing and	TSCA	Toxic Substance Control Act
	New Chemical Substances		
KECI	Korea, Existing Chemical	UVCB	Unknown or Variable Composition,
	Inventory		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