SAFETY DATA SHEET



Marlex® LF083 Polyethylene

Version 3.4

CTION 1: Identification of the su	ubstance/mixture and of the company/undertaking
Product information	
Product Name : Material :	Marlex® LF083 Polyethylene 1112996, 1112995, 1112994, 1112993, 1112992, 1112971, 1112970
Company :	Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
Emergency telephone:	
Mexico CHEMTREC 01-800- South America SOS-Cotec Ir Argentina: +(54)-115983943 EUROPE: BIG +32.14.58454 Austria: VIZ +43 1 406 43 43 Belgium: 070 245 245 (24 ho Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 Cyprus: 1401 Czech Republic: Toxicologica Denmark: Danish Poison Cer Estonia: BIG +32.14.584545 Finland: 0800 147 111 09 47 France: ORFILA number (INI Germany: BIG +32.14.584544 Greece: (0030) 2107793777 Hungary: +36-80-201-199 (2 Iceland: 543 2222 (24 hours/ Ireland: BIG +32.14.584545 (lí pr 703.527.3887(int'l) 186 1132) China: 0532 8388 9090 681-9531 (24 hours) hside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 1 15 (phone) or +32.14583516 (telefax) (24 hours/day, 7 days/week) hours/day, 7 days/week) hours/day, 7 days/week) al Information Center +420 224 919 293, +420 224 915 402 nter (Giftlinjen): +45 8212 1212 (phone) or +32.14583516 (telefax) 71 977 (24 hours/day) RS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) 5 (phone) or +32.14583516 (telefax) (24 hours/day, 7 days/week) 4 hours/day, 7 days/week) 4 hours/day, 7 days/week) (phone) or +32.14583516 (telefax)
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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 SDS@CPChem.com E-mail address 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

This product has been	substance or mixture classified in accordance with the hazard communication standard 29 CFR and labels 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	 Pellets may cause a slip hazard on hard surfaces. Mechanical processing may form combustible dust concentrations in air and thermal processing at elevated 		
Inhalation	 temperatures may generate formaldehyde. Repeated exposure to dust from this material may cause respiratory irritation. Fumes generated during thermal processing may cause irritation of the upper respiratory treat. 		
Skin	 irritation of the upper respiratory tract. Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic response. If this material is heated, thermal burns may result from contact. Thermal burns may include pain or feeling of heat, dissolaterational public and blistering. 		
Eyes	 discolorations, swelling, and blistering. Contact with the eyes may cause irritation due to the abrasive action. Not expected to cause prolonged or significant eye irritation. 		
Ingestion	Thermal burns may result if heated material contacts eye. Ingestion of this product is not a likely route of exposure.		
Carcinogenicity:			
IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed		
NTP	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.		
ECTION 3: Composition/infe	rmation on ingredients		
Component Polyethylene Hexene Cop	CAS-No. Weight % olymer 25213-02-9 99 - 100		
ECTION 4: First aid measure	is		
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		

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sion 3.4	'' y	Revision Date 2024-10
3011 0.4		material from the skin or use solvents or thinners to dissolve it.
In case of eye contact	:	
In case of eye contact	•	of water and seek medical advice.
If swallowed	:	Do not induce vomiting without medical advice.
CTION 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.
CTION 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

US

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.
TION 9: Physical and cher	contact if engineering controls or work practices are not adequate.
	contact if engineering controls or work practices are not adequate.
Information on basic physic	contact if engineering controls or work practices are not adequate.
TION 9: Physical and cher Information on basic physical Appearance Form Physical state Color Odor Odor Threshold	contact if engineering controls or work practices are not adequate.
Information on basic physical state Color Odor Odor Threshold	contact if engineering controls or work practices are not adequate. mical properties sical and chemical properties : Pellets : solid : Opaque : Mild to no odor
Information on basic physical state Color Odor	contact if engineering controls or work practices are not adequate. mical properties sical and chemical properties : Pellets : solid : Opaque : Mild to no odor
Information on basic physical state Color Odor Odor Threshold	contact if engineering controls or work practices are not adequate. mical properties sical and chemical properties : Pellets : Solid : Opaque : Mild to no odor : No data available
Information on basic physical state Color Odor Odor Threshold Safety data Flash point	contact if engineering controls or work practices are not adequate. mical properties sical and chemical properties : Pellets : solid : Opaque : Mild to no odor : No data available : No data available
Information on basic physical state Form Physical state Color Odor Odor Threshold Safety data Flash point Lower explosion limit	contact if engineering controls or work practices are not adequate. mical properties sical and chemical properties : Pellets : solid : Opaque : Mild to no odor : No data available : No data available : Not applicable
Information on basic physical state Form Physical state Color Odor Odor Threshold Safety data Flash point Lower explosion limit Upper explosion limit	contact if engineering controls or work practices are not adequate. mical properties sical and chemical properties : Pellets : solid : Opaque : Mild to no odor : No data available : Not applicable : Not applicable : No data available : Low molecular weight hydrocarbons, alcohols, aldehydes,
Information on basic physical state Form Physical state Color Odor Odor Threshold Safety data Flash point Lower explosion limit Upper explosion limit Autoignition temperature	contact if engineering controls or work practices are not adequate. mical properties sical and chemical properties : Pellets : solid : Opaque : Mild to no odor : No data available : Not applicable : Not applicable : No data available

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Melting point/freezing point		90-140°C (194-284°F)
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- octanol/water	:	No data available
Solubility in other solvents	:	No data available
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Relative vapor density	:	Not applicable
Evaporation rate	:	Not applicable
Evaporation rate		
	vity	
CTION 10: Stability and reactiv	rity	This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of
CTION 10: Stability and reactiv	vity :	This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
CTION 10: Stability and reactiv Reactivity Chemical stability	vity :	This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
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CTION 10: Stability and reactive Reactivity Chemical stability Possibility of hazardous reactions Hazardous reactions Conditions to avoid	vity : : : : :	This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. DNS Hazardous reactions: None known. Avoid prolonged storage at elevated temperature.

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	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.
CTION 11: Toxicological inforr	nation
Marlex® LF083 Polyethylene Acute oral toxicity	
Marlex® LF083 Polyethylene Acute inhalation toxicity	
Marlex® LF083 Polyethylene Acute dermal toxicity	
Marlex® LF083 Polyethylene Skin irritation	: No skin irritation
Marlex® LF083 Polyethylene Eye irritation	: No eye irritation
Marlex® LF083 Polyethylene Further information	
CTION 12: Ecological informat	ion
Ecotoxicity effects	
Toxicity to fish	: No data available
Toxicity to daphnia and other aquatic invertebrates	: No data available
Biodegradability	: Result: This material is not expected to be readily biodegradable.

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Elimination information (persistence and degradability)			
Bioaccumulation	: Does not bioaccumulate.		
Mobility	: The product is insoluble and floats on water.		
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			
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.

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.

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 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. 				
	k according to IMO instruments			
SECTION 15: Regulatory infor National legislation	mation			
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				
Ozone-Depletion : This product neither contains, nor was manufactured with a Class I or Potential Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).				
82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).				
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Marlex[®] LF083 Polyethylene Version 3.4 Revision Date 2024-10-02 This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489). **US State Regulations** Pennsylvania Right To Know : No components are subject to the Pennsylvania Right to Know Act. California Prop. 65 : This product, as shipped, does not contain any carcinogens or Components reproductive toxins presently known by the State of California to cause cancer or reproductive toxicity at a level of exposure subject to the requirements of California Proposition 65. **Notification status** Europe REACH This mixture contains only ingredients which have been : registered according to Regulation (EU) No. 1907/2006 (REACH). On the inventory, or in compliance with the inventory Switzerland CH INV 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 All substances in this product were registered, notified to be registered, or exempted from registration by CPChem through an Only Representative according to K-REACH regulations. Importation of this product is permitted if the Korean Importer of Record was included on CPChem's notifications or if the Importer of Record themselves notified the substances. Taiwan TCSI On the inventory, or in compliance with the inventory 2 China IECSC On the inventory, or in compliance with the inventory **SECTION 16: Other information** : Health Hazard: 0 NFPA Classification Fire Hazard: 1 Reactivity Hazard: 0 0 0 SDS Number:100000101590 11/12

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Further information

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.

K	Key or legend to abbreviations and a	cronyms used	d 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