

Marlex® 1003 Polyethylene

Version 3.3

Revision Date 2025-07-02

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

Product Name	: Marlex® 1003 Polyethylene
Material Company	 1093613, 1093612, 1093560, 1093561 Chevron Phillips Chemical Company LP 9500 Lakeside Blvd.
	The Woodlands, TX 77381
Emergency telephone	
Health:	
866.442.9628 (Nort 1.832.813.4984 (Int	
Transport:	·
	24.9300 or 703.527.3887(int'l)
	+ (+612 9186 1132) China: 0532 8388 9090 C 01-800-681-9531 (24 hours)
South America SOS	Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
Argentina: +(54)-11	
	14.584545 (phone) or +32.14583516 (telefax) 06 43 43 (24 hours/day, 7 days/week)
	45 (24 hours/day, 7 days/week)
Bulgaria: +359 2 91	
	3 342 (24 hours/day, 7 days/week)
Cyprus: 1401	xicological Information Center +420 224 919 293, +420 224 915 402
	oison Center (Giftlinjen): +45 8212 1212
Estonia: BIG +32.14	I.584545 (phone) or +32.14583516 (telefax)
	11 09 471 977 (24 hours/day)
	mber (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) 14.584545 (phone) or +32.14583516 (telefax)
	7793777 (24 hours/day, 7 days/week)
	11-199 (24 hours/day, 7 days/week)
	24 hours/day, 7 days/week)
	.584545 (phone) or +32.14583516 (telefax)
	TER MILAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 CENTER ROME – Policlinico "Agostino Gemelli", Servizio di tossicologia
	6054343; POISON CENTER ROME – Ospedale Pediatrico Bambino Gesù
	26;POISON CENTER ROME – Policlinico "Umberto I" Tel. +39 06 4997 80
	FOGGIA – Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326
	NAPLES – Azienda Ospedaliera "Antonio Cardarelli" Tel. +39 081 747287(
	FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055 CENTER PAVIA – IRCCS Fondazione Salvatore Maugeri Tel. +39 0382
	NTER BERGAMO – Azienda Ospedaliera "Papa Giovanni XXIII" Tel. 800
	TER VERONA – Azienda Ospedaliera Universitaria integrata Tel. 800 011
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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 Responsible Department : Product Safety and Toxicology Group 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** Classification of the substance or mixture This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard. Classification : Combustible dust Labeling 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

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Inhalation	respiratory irritation.			
Skin	 irritation of the upper respir Contact with the skin is not significant irritation. Contact with the skin is not response. If this material is heated, th Thermal burns may include 	atory tract. expected to cause prolonged or expected to cause an allergic ermal burns may result from contact. pain or feeling of heat,		
Eyes	: Contact with the eyes may action. Not expected to cause prol-	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 human carcinogen by IARC.			
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.			
TION 3: Composition/info	ormation on ingredients			
Component Polyethylene	CAS-No. 9002-88-4	Weight % 100		
Polyethylene	9002-88-4			
	9002-88-4 es : Move to fresh air in case o			
Polyethylene TION 4: First aid measure	 9002-88-4 es : Move to fresh air in case of fumes from overheating or call a physician. : If the molten material gets immediate medical attention 	f accidental inhalation of dust or		
Polyethylene TION 4: First aid measure	 9002-88-4 es : Move to fresh air in case of fumes from overheating or call a physician. : If the molten material gets immediate medical attention material from the skin or u 	f accidental inhalation of dust or combustion. If symptoms persist, on skin, quickly cool in water. Seek on. Do not try to peel the solidified se solvents or thinners to dissolve it. eyes, rinse immediately with plenty		
Polyethylene TION 4: First aid measure If inhaled In case of skin contact In case of eye contact	 9002-88-4 es : Move to fresh air in case of fumes from overheating or call a physician. : If the molten material gets immediate medical attention material from the skin or u : In the case of contact with 	f accidental inhalation of dust or combustion. If symptoms persist, on skin, quickly cool in water. Seek on. Do not try to peel the solidified se solvents or thinners to dissolve it. eyes, rinse immediately with plenty advice.		
Polyethylene TION 4: First aid measure If inhaled In case of skin contact In case of eye contact If swallowed	 9002-88-4 es : Move to fresh air in case of fumes from overheating or call a physician. : If the molten material gets immediate medical attention material from the skin or u : In the case of contact with of water and seek medical : Do not induce vomiting with 	f accidental inhalation of dust or combustion. If symptoms persist, on skin, quickly cool in water. Seek on. Do not try to peel the solidified se solvents or thinners to dissolve it. eyes, rinse immediately with plenty advice.		
Polyethylene TION 4: First aid measure If inhaled In case of skin contact	 9002-88-4 es : Move to fresh air in case of fumes from overheating or call a physician. : If the molten material gets immediate medical attention material from the skin or u : In the case of contact with of water and seek medical : Do not induce vomiting with 	f accidental inhalation of dust or combustion. If symptoms persist, on skin, quickly cool in water. Seek on. Do not try to peel the solidified se solvents or thinners to dissolve it. eyes, rinse immediately with plenty advice.		

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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.
SECTION 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 dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
SECTION 7: Handling and storage	ge	
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
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		bonding a themselv >177°C), are irritati throat, an acetaldeh and acrol epidemio carcinoge	and grounding n es be sufficient. polyethylene ca ing to the muco ind lungs. These hyde, acetone, a lein. Based on a logical evidence en. Following a	this material. To minay be necessary, b At elevated tempe an release vapors an us membranes of the substances may in acetic acid, formic an animal data and limite, formaldehyde has Il recommendations re to thermal proces	out may not by ratures (>350°F, nd gases, which e eyes, mouth, clude cid, formaldehyde ited b been listed as a within this SDS
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	a dry place. Kee	ep in a well-ventilate	ed place.
Advice on common storage	ə :	Do not st	ore together wit	h oxidizing and self	-igniting products.
•		-			
Ingredients with workplac	ce co	ntrol para	meters	Control paramete	rs Note
Ingredients with workplaces	ce co Bas	ntrol para	Meters	Control paramete	rs Note Total dust
Ingredients with workplace S Components Nuisance Dust	Bas OSH OSH	ntrol para	Walue TWA TWA he ACGIH Guideline	15 mg/m3 5 mg/m3 e* for respirable dust is 3	Total dust (respirable dust)
Ingredients with workplace S Components Nuisance Dust ontrol as Particulate Not Otherwise Cla or total dust. The OSHA PEL for respir	Bas OSH OSH assified aduate m ards o nces nent. of this	ntrol para A Z-3 A Z-3 d (PNOC). The st is 5.0 mg/ natter contain f this mate in the work of engineer s material, read and	Value TWA TWA TWA TWA ne ACGIH Guideline m3 and 15.0 mg/m3 ing no asbestos and erial (see Section x place when de ing controls or y the personal pr understand all i	15 mg/m3 5 mg/m3 s* for respirable dust is 3 a for total dust. d < 1.0% crystalline silica n 2), applicable expo signing engineering work practices are n otective equipment nstructions and limit	Total dust (respirable dust) .0 mg/m3 and 10.0 mg/m a. osure limits, job controls and select ot adequate to prev listed below is tations supplied with
S Components Nuisance Dust ontrol as Particulate Not Otherwise Cla r total dust. The OSHA PEL for respir This value is for inhalable (total) partic Engineering measures Consider the potential haza activities, and other substa personal protective equipm exposure to harmful levels recommended. The user s	Bas OSH OSH OSH assified able du ulate m ards o nces of this bould thould	ntrol para	Value TWA TWA TWA TWA ne ACGIH Guideline m3 and 15.0 mg/m3 ing no asbestos and erial (see Section x place when de ing controls or y the personal pr understand all i	15 mg/m3 5 mg/m3 s* for respirable dust is 3 a for total dust. d < 1.0% crystalline silica n 2), applicable expo signing engineering work practices are n otective equipment nstructions and limit	Total dust (respirable dust) .0 mg/m3 and 10.0 mg/m a. osure limits, job controls and select ot adequate to prev listed below is tations supplied with

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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.
CTION 9: Physical and chemi	cal	properties
Information on basic physic	cal a	and chemical properties
Appearance		
Form Physical state Color Odor Odor Threshold	:	Pellets solid Opaque Mild to no odor No data available
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 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.
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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

SECTION 10: Stability and reactivity 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 reactions Hazardous reactions : Hazardous reactions: None known. Conditions to avoid : Avoid prolonged storage at elevated temperature. Materials to avoid : Avoid contact with strong oxidizing agents. : Low molecular weight hydrocarbons, alcohols, aldehydes, Thermal decomposition 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.

SECTION 11: Toxicological information

Marlex [®] 1003 Polyethylene	
Acute oral toxicity	: Presumed Not Toxic

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Marlex® 1003 Polyethylene Acute inhalation toxicity	: Presumed Not Toxic
Marlex® 1003 Polyethylene Acute dermal toxicity	: Presumed Not Toxic
Marlex® 1003 Polyethylene Skin irritation	: No skin irritation
Marlex® 1003 Polyethylene Eye irritation	: No eye irritation
Marlex® 1003 Polyethylene Sensitization	: Did not cause sensitization on laboratory animals.
Marlex® 1003 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.
SECTION 12: Ecological information	tion
Ecotoxicity effects	
Toxicity to fish	: Not applicable
Toxicity to daphnia and other aquatic invertebrates	: No data available
Biodegradability	: This material is not expected to be readily biodegradable.
Elimination information (persis	tence and degradability)
Bioaccumulation	: Does not bioaccumulate.
Mobility	: The product is insoluble and floats on water.
Results of PBT assessment	: Non-classified vPvB substance
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	
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Short-term (acute) aquatic
hazard
Long-term (chronic) aquatic
hazard
This product has no known ecotoxicological effects.
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.

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.

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Maritime transport in bulk according to IMO instruments					
SECTION 15: Regulatory information	ation				
National legislation					
SARA 311/312 Hazards	: Combustible dust				
EPCRA - EMERGENCY PLAN	EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO – KNOW				
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).					
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).					
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).					
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US State Regulations	
	Polyethylene - 9002-88-4 This product, as shipped, does not contain any carcinogens or 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 Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL Australia AIIC New Zealand NZIoC Japan ENCS Korea KECI Philippines PICCS Taiwan TCSI China IECSC Other TECI	 Not in compliance with the inventory On the inventory, or in compliance with the inventory Not in compliance with the inventory All substances listed as active on 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 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 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
CTION 16: Other information NFPA Classification :	Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0
Further information	Ŷ
Significant changes since the las previous versions.	st version are highlighted in the margin. This version replaces all
The information in this SDS pert	ains only to the product as shipped.
	Safety Data Sheet is correct to the best of our knowledge, e of its publication. The information given is designed only as a

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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.

Ke	y or legend to abbreviations and a	cronyms 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
LC50	Lethal Concentration 50%	ATE	Information System Acute toxicity estimate