

Marlex® HB501 Polyethylene

Version 1.5

Revision Date 2019-10-18

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2015/830

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

1.1

Product information

Product Name	: Marlex® HB501 Polyethylene
Material	: 1111354, 1111355, 1111358, 1111356, 1111357, 1111353 1111352
	1111352

EC-No.Registration number

Chemical name	CAS-No. EC-No. Index No.	Legal Entity Registration number
Ethylene	74-85-1 200-815-3 601-010-00-3	Chevron Phillips Chemical Company LP 01-2119462827-27-0004
1-Hexene	592-41-6 209-753-1	Chevron Phillips Chemical Company LP 01-2119475505-34-0005

1.3

Details of the supplier of the safety data sheet

Company	: Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
Local	 Chevron Phillips Chemicals International N.V. Airport Plaza (Stockholm Building) Leonardo Da Vincilaan 19 1831 Diegem Belgium
	SDS Requests: (800) 852-5530 Technical Information: (832) 813-4862 Responsible Party: Product Safety Group Email:sds@cpchem.com
1.4 Emergency telephone:	
SDS Number:100000101201	1/11

Marlex® HB501 Polyethylene

Revision Date 2019-10-18

Version 1.5

Health:
866.442.9628 (North America)
1.832.813.4984 (International)
Transport:
CHEMTREC 800.424.9300 or 703.527.3887(int'l)
Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090
EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
Mexico CHEMTREC 01-800-681-9531 (24 hours)
South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
Argentina: +(54)-1159839431

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

2.1

Classification of the substance or mixture REGULATION (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2

Labeling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

SECTION 3: Composition/information on ingredients

3.1 - <mark>3.2</mark>

Substance or Mixture

Hazardous ingredients

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]		
Polyethylene Hexene Copolymer	25213-02-9		95 - 100		
Contains no hazardous ingredients according to GHS. :					
DS Number:100000101201		2/11			

SAFETY DATA SHEET

Version 1.5

Revision Date 2019-10-18

.1			
• 1	Description of first-aid mea	su	res
	If inhaled	:	Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
	In case of skin contact	:	If the molten material gets on skin, quickly cool in water. Seek immediate medical attention. Do not try to peel the solidified material from the skin or use solvents or thinners to dissolve it.
	In case of eye contact	:	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	If swallowed	:	Do not induce vomiting without medical advice.
SE(CTION 5: Firefighting measu	res	
	Flash point	:	No data available
	Autoignition temperature	:	No data available
5.1	Extinguishing media		
	Suitable extinguishing media	:	Water. Water mist. Dry chemical. Carbon dioxide (CO2). Foam. If possible, water should be applied as a spray from a fogging nozzle since this is a surface burning material. The application of high velocity water will spread the burning surface layer. Avoid the use of straight streams that may create a dust cloud and the risk of a dust explosion. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
5.2	Special hazards arising fro Specific hazards during fire fighting	mt :	he substance or mixture Risks of ignition followed by flame propagation or secondary explosions can be caused by the accumulation of dust, e.g. on floors and ledges.
5.3	Advice for firefighters 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.
			nazaru.

Marlex® HB501 Polyethylene

Version 1.5

Revision Date 2019-10-18

hydrocarbon oxidation products (ketones, aldehydes, organic acids) depending on temperature and air availability. Incomplete combustion can also produce formaldehyde.

SECTION 6: Accidental release measures

6.1

Personal precautions, protective equipment and emergency procedures

Personal precautions	Sweep up to prevent slipping hazard. Avoid breathing dust. Avoid dust formation.
6.2	

Environmental precautions

Environmental precautions	:	Do not contaminate surface water. entering drains.	Prevent product from
---------------------------	---	--	----------------------

6.3

Methods and materials fo Methods for cleaning up		ntainment and 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).

6.4

Reference to other sections

SECTION 7: Han	dling and storage	
7.1	s for safe handling	
Advice on sa	ife handling :	Use good housekeeping for safe handling of the product. Keep out of water sources and sewers.
		Spilled pellets and powders 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 pr against fire a	otection : 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.
SDS Number:100	0000101201	4/11

SAFETY DATA SHEET

Version 1.5

Revision Date 2019-10-18

7.2

Conditions for safe storage, including any incompatibilities

Storage

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

SECTION 8: Exposure controls/personal protection

8.2

Exposure controls Engineering measures

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

Personal protective equipment

Respirat	tory 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. Use a positive pressure, air- supplying respirator if there is potential for uncontrolled release, 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 prot	tection	:	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	d 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:	SECTION 9: Physical and chemical properties				

9.1

Information on basic physical and chemical properties

Appearance

SDS Number:100000101201

Marlex® HB501 Polyethylene

Version 1.5

Revision Date 2019-10-18

rsion 1.5	Revision Date 2019-10-1
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	: Not applicable
range Vapor pressure	: Not applicable
Relative density	: Not applicable
Density	: 0,91 - 0,97 g/cm3 Please refer to the Technical Data Sheet (TDS) for more detailed information relating to the nominal physical properties, including density, of this polyethylene resin grade.
Water solubility	: Negligible
Partition coefficient: n- 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
CTION 10: Stability and reactiv	vity

SDS Number:100000101201

6/11

	SAFETY DATA SHEET	
Marlex® HB501 Polyeth		
Version 1.5	Revision Date 2019-10-18	
10.1		
Reactivity	: This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure.	
10.2		
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.	
10.3		
Possibility of hazardous rea	ictions	
10.4 Conditions to avoid	: Avoid prolonged storage at elevated temperature.	
10.5 Materials to avoid	: Avoid contact with strong oxidizing agents.	
Thermal decomposition	: Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing.	
10.6 Hazardous decomposition products	: Normal combustion forms carbon dioxide, water vapor and may produce carbon monoxide, other hydrocarbons and hydrocarbon oxidation products (ketones, aldehydes, organic acids) depending on temperature and air availability. Incomplete combustion can also produce formaldehyde.	
Other data	: No decomposition if stored and applied as directed.	
SECTION 11: Toxicological infor	mation	
11.1		
Information on toxicologica	l effects	
Marlex® HB501 Polyethylen Acute oral toxicity		
Marlex® HB501 Polyethylen Acute inhalation toxicity	e : Presumed Not Toxic	
Marlex® HB501 Polyethylen Acute dermal toxicity	e : Presumed Not Toxic	
Marlex® HB501 Polyethylen Skin irritation	e : No skin irritation	
Marlex® HB501 Polyethylen Eye irritation	e : No eye irritation	
	7/11	

Marlex® HB501 Polyethy	SAFETY DATA SHEET
Version 1.5	Revision Date 2019-10-18
Marlex® HB501 Polyethylene Sensitization	: Did not cause sensitization on laboratory animals.
Marlex® HB501 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 informatic	on
12.1 Toxicity	
Ecotoxicity effects	
12.2 Persistence and degradability	
Biodegradability	: This material is not expected to be readily biodegradable.
12.3 Bioaccumulative potential Elimination information (persiste	nce and degradability)
Bioaccumulation	Does not bioaccumulate.
12.4 Mobility in soil	
Mobility	: The product is insoluble and floats on water.
12.5 Results of PBT and vPvB asse	essment
12.6 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	
SECTION 13: Disposal consideration	ons
13.1	
Waste treatment methods	ains only to the product as shipped.
SDS Number:100000101201	8/11

Marlex® HB501 Polyethylene

Version 1.5

Revision Date 2019-10-18

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

SECTION 14: Transport information

14.1 - 14.7

Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

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

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

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

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

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

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

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.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SDS Number:100000101201

9/11

Version 1.5

Revision Date 2019-10-18

SAFETY DATA SHEET

SECTION 15: Regulatory information

15.1

Safety, health and environmental regulations/legislation specific for the substance or mixture National legislation

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Water contaminating class : (Germany)	: nwg not water endangering
15.2	
Major Accident Hazard : Legislation	: 96/82/EC Update: 2003 Directive 96/82/EC does not apply
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL Australia AICS New Zealand NZIoC Japan ENCS Korea KECI	 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 Not 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 On the inventory, or in compliance with the inventory Description of 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.
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	
	Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0

Further information

SDS Number:100000101201

Version 1.5

Revision Date 2019-10-18

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.

SubstancesLevelDSLCanada, Domestic SubstancesNFPANational Fire Protection AgencyIstListNIOSHNational Institute for OccupationaSubstances ListNIPNational Institute for OccupationaCNSCentral Nervous SystemNTPNational Institute for OccupationaCASChemical Abstract ServiceNZICCNew Zealand Inventory of ChemicalsEC50Effective ConcentrationNOAELNo Observable Adverse Effect LevelEC50Effective Concentration 50%NOECNo Observable Adverse Effect LevelEGSTEOSCA Generic Exposure Scenario ToolOSHAOccupational Safety & Health AdministrationEOSCAEuropean Oilfield Specialty Chemicals AssociationPELPermissible Exposure Limit Commercial Chemical SubstancesMAKGermany Maximum Concentration ValuesPRNTPresumed Not ToxicSelGlobally Harmonized SystemRCRAResource Conservation Recover Act>=Greater Than or Equal ToSTELShort-term Exposure LimitIC50Inhibition Concentration 50%SARASuperfund Amendments and Reauthorization Act.IARCInternational Agency for Research on CancerTLVThreshold Limit ValueIECSCJapan, Inventory of Existing and New Chemical SubstancesTSCAToxic Substance Control Act	Ke	y or legend to abbreviations and a	cronyms used ir	n the safety data sheet
SubstancesLevelDSLCanada, Domestic SubstancesNFPANational Fire Protection AgencyIstListNIOSHNational Institute for OccupationaSubstances ListNIPNational Institute for OccupationaCNSCentral Nervous SystemNTPNational Institute for OccupationaCASChemical Abstract ServiceNZICCNew Zealand Inventory of ChemicalsEC50Effective ConcentrationNOAELNo Observable Adverse Effect LevelEC50Effective Concentration 50%NOECNo Observable Adverse Effect LevelEGSTEOSCA Generic Exposure Scenario ToolOSHAOccupational Safety & Health AdministrationEOSCAEuropean Oilfield Specialty Chemicals AssociationPELPermissible Exposure Limit Commercial Chemical SubstancesMAKGermany Maximum Concentration ValuesPRNTPresumed Not ToxicSelGlobally Harmonized SystemRCRAResource Conservation Recover Act>=Greater Than or Equal ToSTELShort-term Exposure LimitIC50Inhibition Concentration 50%SARASuperfund Amendments and Reauthorization Act.IARCInternational Agency for Research on CancerTLVThreshold Limit ValueIECSCJapan, Inventory of Existing and New Chemical SubstancesTSCAToxic Substance Control Act		American Conference of		
ListNIOSHNational Institute for Occupational Safety & HealthNDSLCanada, Non-Domestic Substances ListNIOSHNational Institute for Occupational Safety & HealthCNSCentral Nervous SystemNTPNational Toxicology ProgramCASChemical Abstract ServiceNZIoCNew Zealand Inventory of ChemicalsEC50Effective ConcentrationNOAELNo Observable Adverse Effect LevelEC50Effective Concentration 50%NOECNo Observed Effect ConcentratioEGESTEOSCA Generic Exposure Scenario ToolOSHAOccupational Safety & Health AdministrationEOSCAEuropean Oilfield Specialty Chemicals AssociationPELPermissible Exposure LimitEINECSEuropean Inventory of Existing Chemical SubstancesPICCSPhilippines Inventory of Commercial Chemical SubstancesMAKGermany Maximum Concentration ValuesPRNTPresumed Not ToxicSGHSGlobally Harmonized SystemRCRAResource Conservation Recover Act>=Greater Than or Equal ToSTELShort-term Exposure LimitIC50Inhibition Concentration 50%SARASuperfund Amendments and Reauthorization Act.IARCInternational Agency for Research on CancerTLVThreshold Limit ValueIECSCInventory of Existing Chemical Substances in ChinaTSCAToxic Substance Control Act		Substances	-	
Substances ListSafety & HealthCNSCentral Nervous SystemNTPNational Toxicology ProgramCASChemical Abstract ServiceNZloCNew Zealand Inventory of ChemicalsEC50Effective ConcentrationNOAELNo Observable Adverse Effect LevelEC50Effective Concentration 50%NOECNo Observed Effect ConcentrationEGSTEOSCA Generic Exposure Scenario ToolOSHAOccupational Safety & Health AdministrationEOSCAEuropean Oilfield Specialty Chemicals AssociationPELPermissible Exposure Limit Commercial Chemical SubstancesEINECSEuropean Inventory of Existing Chemical SubstancesPICCSPhilippines Inventory of Commercial Chemical SubstancesMAKGermany Maximum Concentration ValuesPRNTPresumed Not ToxicS=Greater Than or Equal ToSTELShort-term Exposure LimitIC50Inhibition Concentration 50%SARASuperfund Amendments and Reauthorization Act.IARCInternational Agency for Research on CancerTLVThreshold Limit ValueIECSCInventory of Existing Chemical Substances in ChinaTWATime Weighted AverageENCSJapan, Inventory of Existing and New Chemical SubstancesTSCAToxic Substance Control Act	DSL	List	NFPA	
CASChemical Abstract ServiceNZIoCNew Zealand Inventory of ChemicalsEC50Effective ConcentrationNOAELNo Observable Adverse Effect LevelEC50Effective Concentration 50%NOECNo Observed Effect ConcentrationEGESTEOSCA Generic Exposure Scenario ToolOSHAOccupational Safety & Health AdministrationEOSCAEuropean Oilfield Specialty Chemicals AssociationPELPermissible Exposure LimitEINECSEuropean Inventory of Existing Chemical SubstancesPICCSPhilippines Inventory of Commercial Chemical SubstancesMAKGermany Maximum Concentration ValuesPRNTPresumed Not ToxicGHSGlobally Harmonized System Inhibition Concentration 50%SARAResource Conservation Recover Act>=Greater Than or Equal ToSTELShort-term Exposure LimitIARCInternational Agency for Research on CancerTLVThreshold Limit ValueIECSCInventory of Existing Chemical Substances in ChinaTWATime Weighted AverageENCSJapan, Inventory of Existing and New Chemical SubstancesTSCAToxic Substance Control Act	NDSL		NIOSH	National Institute for Occupational Safety & Health
EC50Effective ConcentrationNOAELNo Observable Adverse Effect LevelEC50Effective Concentration 50%NOECNo Observed Effect ConcentrationEGESTEOSCA Generic Exposure Scenario ToolOSHAOccupational Safety & Health AdministrationEOSCAEuropean Oilfield Specialty 	CNS	Central Nervous System	NTP	National Toxicology Program
EC50Effective Concentration 50%NOECNo Observed Effect ConcentrationEGESTEOSCA Generic Exposure Scenario ToolOSHAOccupational Safety & Health AdministrationEOSCAEuropean Oilfield Specialty Chemicals AssociationPELPermissible Exposure LimitEINECSEuropean Inventory of Existing Chemical SubstancesPICCSPhilippines Inventory of Commercial Chemical SubstancesMAKGermany Maximum Concentration ValuesPRNTPresumed Not ToxicGHSGlobally Harmonized SystemRCRAResource Conservation Recovery Act>=Greater Than or Equal ToSTELShort-term Exposure LimitIC50Inhibition Concentration 50%SARASuperfund Amendments and Reauthorization Act.IARCInternational Agency for Research on CancerTLVThreshold Limit ValueIECSCJapan, Inventory of Existing and Numertory of Existing and Numertory of Existing and New Chemical SubstancesTSCAToxic Substance Control Act	CAS			Chemicals
EGESTEOSCA Generic Exposure Scenario ToolOSHAOccupational Safety & Health AdministrationEOSCAEuropean Oilfield Specialty Chemicals AssociationPELPermissible Exposure LimitEINECSEuropean Inventory of Existing Chemical SubstancesPICCSPhilippines Inventory of Commercial Chemical SubstanceMAKGermany Maximum Concentration ValuesPRNTPresumed Not ToxicGHSGlobally Harmonized SystemRCRAResource Conservation Recover Act>=Greater Than or Equal ToSTELShort-term Exposure LimitIC50Inhibition Concentration 50%SARASuperfund Amendments and Reauthorization Act.IARCInternational Agency for Research on CancerTLVTime Weighted AverageIECSCInventory of Existing Chemical Substances in ChinaTWATime Weighted AverageENCSJapan, Inventory of Existing and New Chemical SubstancesTSCAToxic Substance Control Act	EC50	Effective Concentration		
Scenario ToolAdministrationEOSCAEuropean Oilfield Specialty Chemicals AssociationPELPermissible Exposure LimitEINECSEuropean Inventory of Existing Chemical SubstancesPICCSPhilippines Inventory of Commercial Chemical SubstancesMAKGermany Maximum Concentration ValuesPRNTPresumed Not ToxicGHSGlobally Harmonized System Concentration 50%RCRAResource Conservation Recover Act>=Greater Than or Equal ToSTELShort-term Exposure LimitIC50Inhibition Concentration 50%SARASuperfund Amendments and Reauthorization Act.IARCInternational Agency for Research on CancerTLVThreshold Limit ValueIECSCInventory of Existing Chemical Substances in ChinaTWATime Weighted AverageENCSJapan, Inventory of Existing and New Chemical SubstancesTSCAToxic Substance Control Act		Effective Concentration 50%	NOEC	No Observed Effect Concentration
Chemicals AssociationEINECSEuropean Inventory of Existing Chemical SubstancesPICCSPhilippines Inventory of Commercial Chemical SubstancesMAKGermany Maximum Concentration ValuesPRNTPresumed Not ToxicGHSGlobally Harmonized SystemRCRAResource Conservation Recover Act>=Greater Than or Equal ToSTELShort-term Exposure LimitIC50Inhibition Concentration 50%SARASuperfund Amendments and Reauthorization Act.IARCInternational Agency for Research on CancerTLVThreshold Limit ValueIECSCInventory of Existing Chemical Substances in ChinaTWATime Weighted AverageENCSJapan, Inventory of Existing and New Chemical SubstancesTSCAToxic Substance Control Act	EGEST	EST EOSCA Generic Exposure		
Chemical SubstancesCommercial Chemical SubstancesMAKGermany Maximum Concentration ValuesPRNTPresumed Not ToxicGHSGlobally Harmonized SystemRCRAResource Conservation Recover Act>=Greater Than or Equal ToSTELShort-term Exposure LimitIC50Inhibition Concentration 50%SARASuperfund Amendments and Reauthorization Act.IARCInternational Agency for Research on CancerTLVThreshold Limit ValueIECSCInventory of Existing Chemical Substances in ChinaTWATime Weighted AverageENCSJapan, Inventory of Existing and New Chemical SubstancesTSCAToxic Substance Control Act	EOSCA			Permissible Exposure Limit
ValuesRCRAResource Conservation Recovery Act>=Greater Than or Equal ToSTELShort-term Exposure LimitIC50Inhibition Concentration 50%SARASuperfund Amendments and Reauthorization Act.IARCInternational Agency for Research on CancerTLVThreshold Limit ValueIECSCInventory of Existing Chemical Substances in ChinaTWATime Weighted AverageENCSJapan, Inventory of Existing and New Chemical SubstancesTSCAToxic Substance Control Act	EINECS	Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
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	MAK		PRNT	Presumed Not Toxic
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	GHS			Resource Conservation Recovery Act
IC50Inhibition Concentration 50%SARASuperfund Amendments and Reauthorization Act.IARCInternational Agency for Research on CancerTLVThreshold Limit ValueIECSCInventory of Existing Chemical Substances in ChinaTWATime Weighted AverageENCSJapan, Inventory of Existing and New Chemical SubstancesTSCAToxic Substance Control Act	>=	Greater Than or Equal To		Short-term Exposure Limit
on Cancer TWA IECSC Inventory of Existing Chemical Substances in China TWA ENCS Japan, Inventory of Existing and New Chemical Substances TSCA	IC50		SARA	Superfund Amendments and
Substances in China TSCA ENCS Japan, Inventory of Existing and New Chemical Substances TSCA Toxic Substance Control Act	IARC			Threshold Limit Value
ENCS Japan, Inventory of Existing and New Chemical Substances TSCA Toxic Substance Control Act	IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
	ENCS	Japan, Inventory of Existing and	TSCA	Toxic Substance Control Act
Inventory Complex Reaction Products, and Biological Materials	KECI	KECI Korea, Existing Chemical		
<= Less Than or Equal To WHMIS Workplace Hazardous Materials Information System	<=	<= Less Than or Equal To		Workplace Hazardous Materials
LC50 Lethal Concentration 50%	LC50	Lethal Concentration 50%		