SAFETY DATA SHEET



Marlex® D173 Polyethylene

Version 1.6

Revision Date 2023-05-17

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2020/878

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

1.1 Product identifier

Product information

Product Name Material	 Marlex® D173 Polyethylene 1127944, 1122517, 1122516, 1122515, 1122514, 1122513, 1122512, 1122491, 1122490, 1122489, 1122488, 1122487, 1122486, 1115616, 1115617, 1115620, 1115618, 1115619, 1115615, 1115614
	1113013, 1113014

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
Ethylene	74-85-1 200-815-3 601-010-00-3	Chevron Phillips Chemicals International NV 01-2119462827-27-0271
1-Hexene	592-41-6 209-753-1	Chevron Phillips Chemical Company LP 01-2119475505-34-0005
1-Hexene	592-41-6 209-753-1	Chevron Phillips Chemicals International NV 01-2119475505-34-0021

1.2

Relevant identified uses of the substance or mixture and uses advised against

Relevant Identified Uses	:	Manufacture of plastics products
Supported		

1.3

Details of the supplier of the safety data sheet

Company	1	Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
Local		Chevron Phillips Chemicals International N.V. Airport Plaza (Stockholm Building)
SDS Number:100000102266		1/14

SAFETY DATA SHEET

Marlex[®] D173 Polyethylene

Version 1.6

Revision Date 2023-05-17

Leonardo Da Vincilaan 19 1831 Diegem Belgium

SDS Requests: (800) 852-5530 Responsible Party: Product Safety Group Email:sds@cpchem.com

1.4

Emergency telephone:

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 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 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week) Belgium: 070 245 245 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Cyprus: 1401 Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402 Denmark: Danish Poison Center (Giftlinien): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Finland: 0800 147 111 09 471 977 (24 hours/day) France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week) Iceland: 543 2222 (24 hours/day, 7 days/week) Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax) 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 SDS Number:100000102266 2/14

			SAFET	Y DATA SHEET
Marlex® D173 Pol	yethylene			
Version 1.6			Revision D	ate 2023-05-17
Website	: www	.CPChem.com		
		Do not use this material i body or permanent conta		
human body or contac	ct with internal bo Phillips Chemica	lications involving brief c dy fluids or tissues unles I Company LP or its lega ated use.	s the material has bee	en provided
express warranty or in	nplied warranty c	P and its legal affiliates r oncerning the suitability ternal body fluids or tissu	of this material for use	
SECTION 2: Hazards ider	ntification			
2.1 Classification of the REGULATION (EC) N		ixture		
	tance or mixture	according to Regulation	(EC) No 1272/2008.	
2.2 Labeling (REGULAT	ION (EC) No 127	/2/2008)		
Not a hazardous subs	tance or mixture	according to Regulation	(EC) No 1272/2008.	
2.3 Other hazards Results of PBT and v assessment	be ei	substance/mixture conta ther persistent, bioaccun stent and very bioaccum gher.	ulative and toxic (PB	T), or very
Endocrine disrupting properties	cons to R (EU)	substance/mixture does sidered to have endocrine EACH Article 57(f) or Co 2017/2100 or Commiss Is of 0.1% or higher.	e disrupting properties mmission Delegated r	according egulation
SECTION 3: Composition	/information on	ingredients		
3.1 - 3.2 Substance or Mixture				
Hazardous ingredier	its			
Chemical name	CAS-No.	Classification		cific Conc. ts_M-factors

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	Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]	Specific Conc. Limits, M-factors and ATEs	
	Polyethylene Hexene Copolymer	25213-02-9		99 - 100		
SDS	S Number:100000102266	6	3/1	4		

Version 1.6

Revision Date 2023-05-17

Contains no hazardous ingredients according to GHS. :

SEC	CTION 4: First aid measures			
4.1	Description of first-aid meas	sur	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.	
4.2	Most important symptoms a Notes to physician	nd	effects, both acute and delayed	
	Symptoms	:	No data available.	
4.3	Risks Indication of any immediate	: me	No data available. edical attention and special treatment needed	
	Treatment	:	No data available.	
SEC	ECTION 5: Firefighting measures			
	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 from Specific hazards during fire fighting	n ti :	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	:	Use personal protective equipment. Wear self-contained	
SDS	S Number:100000102266		4/14	

Ma	Irlex® D173 Polyethy	مار	SAFETY DATA SHEET
	sion 1.6		Revision Date 2023-05-17
	equipment for fire-fighters		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.
SEC	CTION 6: Accidental release m	nea	asures
6.1			
J. I	Personal precautions, protect	ecti	ve 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. Prevent product from entering drains.
6.3	Methods and materials for control Methods for cleaning up	con :	tainment 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	5	
	Reference to other sections	:	For personal protection see section 8. For disposal considerations see section 13.
SEC	CTION 7: Handling and storage	ge	
7.1	Precautions for safe handlin Handling	ng	
	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
	S Number:100000102266		5/14

		SAFETY DATA SHEET
Marlex® D173 Polyeth	iyle	
Version 1.6		Revision Date 2023-05-17
		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.
7.2 Conditions for safe storag	ie, ir	ncluding 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.
German storage class	:	Combustible Solids
2.3 Specific End Use Use	:	Manufacture of plastics products
SECTION 8: Exposure controls	s/per	rsonal protection
3.2 Exposure controls Engineering measures		
Consider the potential hazar activities, and other substan personal protective equipme	nces ent.	of 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 preven a material, the percent protecting equipment listed below is

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

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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
SDS Number:100000102266	6/14

2	rlex® D173 Polyethyl	SAFETY DATA SHE
	sion 1.6	Revision Date 2023-05-
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		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.
EC	CTION 9: Physical and chemica	al properties
.1		
••	Information on basic physica	al and chemical properties
	Appearance	
	Form	: Pellets
	Physical state	: solid
	Color	: Opaque
	Odor Odor Three hold	: Mild to no odor
	Odor Threshold	: 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 prossure	· 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
	S Number:100000102266	7/14

Mar	rlex® D173 Polyethy	SAFETY DATA SHEE
	ion 1.6	Revision Date 2023-05-1
(Partition coefficient: n- octanol/water Solubility in other solvents	: No data available : No data available
	Viscosity, dynamic	: Not applicable
	Relative vapor density	: Not applicable
	Evaporation rate	: Not applicable
.2		
(Other information Conductivity	: No data available
SEC	TION 10: Stability and reacti	vity
0.1		
I	Reactivity	: This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure.
0.2		
(Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
0.3	Possibility of hazardous rea	ctions
I	Hazardous reactions	: Hazardous reactions: None known.
0.4	Conditions to avoid	: Avoid prolonged storage at elevated temperature.
0.5 	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.
	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.
	Number:100000102266	8/14

SAFETY DATA SHEET

Version 1.6

Revision Date 2023-05-17

11.1

11.1 Information on toxicological	.1 Information on toxicological effects		
Marlex® D173 Polyethylene Acute oral toxicity	: Presumed Not Toxic		
Marlex® D173 Polyethylene Acute inhalation toxicity	: Presumed Not Toxic		
Marlex® D173 Polyethylene Acute dermal toxicity	: Presumed Not Toxic		
Marlex® D173 Polyethylene Skin irritation	: No skin irritation		
Marlex® D173 Polyethylene Eye irritation	: No eye irritation		
Marlex® D173 Polyethylene Sensitization	: Did not cause sensitization on laboratory animals.		
Marlex® D173 Polyethylene Aspiration toxicity Toxicology Assessment	: No data available.		
Marlex® D173 Polyethylene Specific Target Organ Toxicity (Single Exposure)	: Remarks: No adverse effects expected	:	
Marlex® D173 Polyethylene Specific Target Organ Toxicity (Repeated Exposure)	: Remarks: No adverse effects expected	:	
Marlex® D173 Polyethylene CMR effects	 Carcinogenicity: No adverse effects expected Mutagenicity: No adverse effects expected Reproductive toxicity: No adverse effects expected 		
11.2 Information on other hazards	S		
Marlex® D173 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,		
SDS Number:100000102266	9/14		

Marlex® D173 Polyethyl	SAFETY DATA SHEE
Version 1.6	Revision Date 2023-05-1
	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.
Endocrine disrupting properties	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
SECTION 12: Ecological informat	ion
12.1 Toxicity	
Ecotoxicity effects	
Toxicity to fish	: No data available
Toxicity to daphnia and other aquatic invertebrates	: No data available
12.2 Persistence and degradabilit	у
Biodegradability	: This material is not expected to be readily biodegradable.
12.3 Bioaccumulative potential Elimination information (persist	ence 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 ass Results of PBT assessment	 Sessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Endocrine disrupting proper	ties
Endocrine disrupting properties	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
SDS Number:100000102266	10/14
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SAFETY DATA SHEET

Version 1.6

Revision Date 2023-05-17

12.7		
	Other	adve

	Other adverse effects			
	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.	
12.8	3 Additional Information			
	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.	
SEC	SECTION 13: Disposal considerations			

13.1

Waste treatment methods

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

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.

SDS Number:100000102266

11/14

SAFETY DATA SHEET

Revision Date 2023-05-17

Marlex[®] D173 Polyethylene Version 1.6 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** 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture **National legislation** Commission Regulation (EU) 2020/878 of 18 June 20 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 hazard class : nwg not water endangering (Germany) 15.2 Major Accident Hazard : 96/82/EC Update: 2003 Legislation Directive 96/82/EC does not apply

Notification status Europe REACH This product is in full compliance according to REACH 5 regulation 1907/2006/EC. 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 Australia AIIC On the inventory, or in compliance with the inventory New Zealand NZIoC On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory Japan ENCS 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). SDS Number:100000102266 12/14

	SAFETY DATA SHEET
larlex® D173 Polyethyle	ene
ersion 1.6	Revision Date 2023-05-17
Philippines PICCS Taiwan TCSI China IECSC	 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
Other regulations	 Italian Legislative Decree April 3, 2006, n.152, (Environmental standards) and subsequent amendments, Bags, Shrink Film, Stretch Hood, Liners: LDPE 4 Liners: PP 5
	Bags, Shrink Film, Stretch Hood, Liners: LDPE 4

SECTION 16: Other information

NFPA Classification

: Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0

Further information

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

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The information 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.

ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AIIC	Australian Inventory of Industrial Chemicals	LOAEL	Lowest Observed Adverse Effe
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agenc
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupatio 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 Concentra
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 Substan
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic

SAFETY DATA SHEET

Version 1.6

Revision Date 2023-05-17

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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