

Marlex® D139-N Polyethylene

Version 1.1

Revision Date 2024-07-02

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	: Marlex® D139-N Polyethylene	
Material	: 1130064, 1130063, 1130062, 1130051, 1130050	

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	sene 592-41-6 Chevron Phillips Chemical Company LF 209-753-1 01-2119475505-34-0005	
1-Hexene	592-41-6 209-753-1	Chevron Phillips Chemicals International NV 01-2119475505-34-0021

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Details of the supplier of the safety data sheet

Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
Chauran Bhilling Chamicala International N.V.
Chevron Phillips Chemicals International N.V. Airport Plaza (Stockholm Building) Leonardo Da Vincilaan 19 1831 Diegem Belgium
SDS Requests: (800) 852-5530 Responsible Party: Product Safety Group Email:sds@cpchem.com
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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 (Giftlinjen): +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: 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 **Responsible Department** : Product Safety and Toxicology Group E-mail address SDS@CPChem.com SDS Number:100000106976 2/13

			SA	AFETY DATA SHEET						
Marlex® D139-N Po	olyethylene)	0/							
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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.									
human body or contact directly from Chevron F	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.									
express warranty or im	plied warranty c	P and its legal affiliates r oncerning the suitability ternal body fluids or tissu	of this material for							
SECTION 2: Hazards ident	ification									
2.1 Classification of the s REGULATION (EC) No		ixture								
Not a hazardous substa	ance or mixture	according to Regulation	(EC) No 1272/20	008.						
2.2 Labeling (REGULATIO)N (EC) No 127	2/2008)								
		according to Regulation	(EC) No 1272/20	008.						
2.3 Other hazards Results of PBT and vF assessment	vB : Non-	classified vPvB substanc	ce							
SECTION 3: Composition/	information on	ingredients								
3.1 - 3.2 Substance or Mixture										
Hazardous ingredient	S									
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							
Contains no hazardous	ingredients acco	ording to GHS. :	1							
SECTION 4: First aid meas	sures									
4.1 Description of first-ai	d measures									

If inhaled

: Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist,

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			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 and effects, both acute and delayed4.3 Indication of any immediate medical attention and special treatment needed

SEC	CTION 5: Firefighting measur	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 from Specific hazards during fire fighting	m tl :	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.
	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.
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	SECTION 6: Accidental release measures				
	6.1	Personal precautions, prote	cti	ve equipment and emergency procedures	
	6.2	Personal precautions	:	Sweep up to prevent slipping hazard. Avoid breathing dust. Avoid dust formation.	
0.2	0.2	Environmental precautions			
		Environmental precautions	:	Do not contaminate surface water. Prevent product from entering drains.	

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6.3	Methods and materials for c Methods for cleaning up		itainment 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		

Reference to other sections : For personal protection see section 8. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1

Precautions for safe handling 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.
7.2	Conditions for safe storage,	inc	cluding any incompatibilities

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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

Respiratory protection	 No respiratory protection is normally required. If heated material generates vapor or fumes that are not adequately controlled by ventilation, wear an appropriate respirator. Use the following elements for air-purifying respirators: Organic Vapor and Formaldehyde. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection. Dust safety masks are recommended when the dust concentration is excessive. 				
Eye protection	: Use of safety glasses with side shields for solid handling is good industrial practice. If this material is heated, wear chemical goggles or safety glasses with side shields or a face shield. If there is potential for dust, use chemical goggles.				
Skin and body protection	: At ambient temperatures use of clean and protective clothing is good industrial practice. If the material is heated or molten, wear thermally insulated, heat-resistant gloves that are able to withstand the temperature of the molten product. If this material is heated, wear insulated clothing to prevent skin contact if engineering controls or work practices are not adequate.				
SECTION 9: Physical and chemical properties					

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9.1	Information on basic physica	and chemical properties
	Appearance	
	Form Physical state	Pellets solid
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Color Odor Odor Threshold		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.
Water solubility	:	negligible
Partition coefficient: n-	:	No data available
octanol/water Solubility in other solvents	:	No data available
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Relative vapor density	:	Not applicable
Evaporation rate	:	Not applicable
		> 0,0 m.b_/s

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SECTION 10: Stability and reactive	vity
10.1	
Popotivity	. This material is considered non reactive under normal
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
Chemical Stability	anticipated storage and handling conditions of temperature
	and pressure.
10.3	
Possibility of hazardous rea	ctions
Hazardous reactions	: Hazardous reactions: None known.
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	: Normal combustion forms carbon dioxide, water vapor and
products	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	nation
11.1	
Information on toxicological	effects
Marlex® D139-N Polyethylen	
Acute oral toxicity	: Presumed Not Toxic
Marlex® D139-N Polyethylen	le
Acute inhalation toxicity	: Presumed Not Toxic
Marley® D130-N Polyothylor	
Marlex® D139-N Polyethylen Acute dermal toxicity	
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Marlex® D139-N Polyethylen Skin irritation	e : No skin irritation			
Marlex® D139-N Polyethylen Eye irritation	No eye irritation			
Marlex® D139-N Polyethylen Sensitization	Did not cause sensitization on laboratory animals.			
1.2 Information on other hazard	8			
Marlex® D139-N Polyethylen 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. 			
Endocrine disrupting properties	:			
CCTION 42: Feelewisel information				
SECTION 12: Ecological informa	ion			
	ion			
2.1 Toxicity	ion : Not applicable			
2.1 Toxicity Ecotoxicity effects				
2.1 Toxicity Ecotoxicity effects Toxicity to fish Toxicity to daphnia and other aquatic invertebrates	: Not applicable : No data available			
2.1 Toxicity Ecotoxicity effects Toxicity to fish Toxicity to daphnia and other aquatic invertebrates	: Not applicable : No data available			
12.1 Toxicity Ecotoxicity effects Toxicity to fish Toxicity to daphnia and other aquatic invertebrates 12.2 Persistence and degradabili	: Not applicable : No data available : y : This material is not expected to be readily biodegradable.			
 12.1 Toxicity Ecotoxicity effects Toxicity to fish Toxicity to daphnia and other aquatic invertebrates 12.2 Persistence and degradabili Biodegradability 12.3 Bioaccumulative potential 	: Not applicable : No data available : y : This material is not expected to be readily biodegradable.			
 12.1 Toxicity Ecotoxicity effects Toxicity to fish Toxicity to daphnia and other aquatic invertebrates 12.2 Persistence and degradabili Biodegradability 12.3 Bioaccumulative potential Elimination information (persis 	 Not applicable No data available ty This material is not expected to be readily biodegradable. 			
 12.1 Toxicity Ecotoxicity effects Toxicity to fish Toxicity to daphnia and other aquatic invertebrates 12.2 Persistence and degradabili Biodegradability 12.3 Bioaccumulative potential Elimination information (persis Bioaccumulation 12.4 	 Not applicable No data available ty This material is not expected to be readily biodegradable. 			
 12.1 Toxicity Ecotoxicity effects Toxicity to fish Toxicity to daphnia and other aquatic invertebrates 12.2 Persistence and degradabili Biodegradability 12.3 Bioaccumulative potential Elimination information (persis Bioaccumulation 12.4 Mobility in soil Mobility 12.5 	 Not applicable No data available No data available This material is not expected to be readily biodegradable. tence and degradability) Does not bioaccumulate. The product is insoluble and floats on water. 			
 12.1 Toxicity Ecotoxicity effects Toxicity to fish Toxicity to daphnia and other aquatic invertebrates 12.2 Persistence and degradabili Biodegradability 12.3 Bioaccumulative potential Elimination information (persis) Bioaccumulation 12.4 Mobility in soil 	 Not applicable No data available No data available This material is not expected to be readily biodegradable. tence and degradability) Does not bioaccumulate. The product is insoluble and floats on water. 			

Marlav® D120-N Palvat	SAFETY DATA SHEE
Marlex® D139-N Polyet	
Results of PBT assessment	Revision Date 2024-07-0 : Non-classified vPvB substance
12.6 Endocrine disrupting prope	ties
Endocrine disrupting properties	:
12.7 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 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.
	tions

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

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TRANSPORTATION BY THIS AGENCY.

	TRANSPORT ASSOCIATION) AZARDOUS MATERIAL OR DANGEROUS GOODS FOR HIS AGENCY.					
	GEROUS GOODS BY ROAD (EUROPE)) AZARDOUS MATERIAL OR DANGEROUS GOODS FOR HIS AGENCY.					
DANGEROUS GOODS (EUR	AZARDOUS MATERIAL OR DANGEROUS GOODS FOR					
OF DANGEROUS GOODS BY	AZARDOUS MATERIAL ÓR DANGEROUS GOODS FOR					
Maritime transport in bulk according to IMO instruments						
SECTION 15: Requiatory information	tion					
	tion					
15.1	tion ental regulations/legislation specific for the substance or mixture					
15.1 Safety, health and environme National legislation Commission Regulation (EU) 2	ental regulations/legislation specific for the substance or mixture 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of of the Council on the Registration, Evaluation, Authorisation and					
15.1 Safety, health and environme National legislation Commission Regulation (EU) 2 the European Parliament and c	ental regulations/legislation specific for the substance or mixture 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of of the Council on the Registration, Evaluation, Authorisation and					
15.1 Safety, health and environme National legislation Commission Regulation (EU) 2 the European Parliament and c Restriction of Chemicals (REA Water hazard class	ental regulations/legislation specific for the substance or mixture 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of of the Council on the Registration, Evaluation, Authorisation and CH)					
15.1 Safety, health and environme National legislation Commission Regulation (EU) 2 the European Parliament and o Restriction of Chemicals (REA Water hazard class (Germany)	ental regulations/legislation specific for the substance or mixture 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of of the Council on the Registration, Evaluation, Authorisation and CH)					
 15.1 Safety, health and environmentational legislation Commission Regulation (EU) 2 the European Parliament and c Restriction of Chemicals (REA) Water hazard class (Germany) 15.2 Major Accident Hazard Legislation Notification status 	ental regulations/legislation specific for the substance or mixture 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of of the Council on the Registration, Evaluation, Authorisation and CH) : nwg not water endangering : 96/82/EC Update: 2003 Directive 96/82/EC does not apply					
 15.1 Safety, health and environme National legislation Commission Regulation (EU) 2 the European Parliament and o Restriction of Chemicals (REA) Water hazard class (Germany) 15.2 Major Accident Hazard Legislation 	 ental regulations/legislation specific for the substance or mixture 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of of the Council on the Registration, Evaluation, Authorisation and CH) nwg not water endangering 96/82/EC Update: 2003 Directive 96/82/EC does not apply This product is in full compliance according to REACH regulation 1907/2006/EC. On the inventory, or 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 					
 15.1 Safety, health and environmenational legislation Commission Regulation (EU) 2 the European Parliament and c Restriction of Chemicals (REA) Water hazard class (Germany) 15.2 Major Accident Hazard Legislation Notification status Europe REACH Switzerland CH INV United States of America (USA TSCA 	 ental regulations/legislation specific for the substance or mixture 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of of the Council on the Registration, Evaluation, Authorisation and CH) : nwg not water endangering : 96/82/EC Update: 2003 Directive 96/82/EC does not apply : This product is in full compliance according to REACH regulation 1907/2006/EC. : On the inventory, or in compliance with the inventory A) : On or in compliance with the active portion of the TSCA inventory 					
 15.1 Safety, health and environmenational legislation Commission Regulation (EU) 2 the European Parliament and c Restriction of Chemicals (REA) Water hazard class (Germany) 15.2 Major Accident Hazard Legislation Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL 	 ental regulations/legislation specific for the substance or mixture 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of of the Council on the Registration, Evaluation, Authorisation and CH) nwg not water endangering 96/82/EC Update: 2003 Directive 96/82/EC does not apply This product is in full compliance according to REACH regulation 1907/2006/EC. On the inventory, or 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 					

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sion 1.1				Revision Date 2024-07
New Zealand Japan ENCS Korea KECI	NZIoC	: On the : All sub to be re CPChe K-REA permitt	inventory, or ir stances in this egistered, or ex em through an CH regulations ed if the Korea ed on CPChem	n compliance with the inventory n compliance with the inventory product were registered, notified kempted from registration by Only Representative according to s. Importation of this product is in Importer of Record was 's notifications or if the Importer of otified the substances.
Philippines Pl Taiwan TCSI China IECSC	CCS	: On the	inventory, or in	n compliance with the inventory n compliance with the inventory n compliance with the inventory
CTION 16: Othe	er information			
NFPA Classif		Health Hazard:	_	
Further inform	nation			
Significant cha previous versi		version are hig	phlighted in the	margin. This version replaces all
The information	on in this SDS perta	ins only to the	product as ship	pped.
information an guidance for s not to be cons specific mater	d belief at the date afe handling, use, p idered a warranty o	of its publication processing, store or quality specific may not be vali	n. The informa age, transport cation. The inf d for such mate	the best of our knowledge, ation given is designed only as a ation, disposal and release and is ormation relates only to the erial used in combination with any
Ke	ey or legend to abbr	reviations and a	acronyms used	in the safety data sheet
ACGIH	American Conferen	nce of	LD50	Lethal Dose 50%
AIIC	Government Indus Australian Inventor Chemicals		LOAEL	Lowest Observed Adverse Effect
DSL	Canada, Domestic	Substances	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Dom Substances List	nestic	NIOSH	National Institute for Occupationa Safety & Health
			1	-

CNS Central Nervous System NTP National Toxicology Program NZIoC New Zealand Inventory of CAS **Chemical Abstract Service** Chemicals EC50 Effective Concentration NOAEL No Observable Adverse Effect Level EC50 Effective Concentration 50% NOEC No Observed Effect Concentration EOSCA Generic Exposure EGEST Occupational Safety & Health OSHA Scenario Tool Administration EOSCA European Oilfield Specialty PEL Permissible Exposure Limit Chemicals Association Philippines Inventory of Commercial Chemical Substances EINECS European Inventory of Existing PICCS **Chemical Substances** SDS Number:100000106976 12/13

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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