SAFETY DATA SHEET



Marlex® 9238 Polyethylene

Version 1.9

Revision Date 2024-06-06

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® 9238 Polyethylene
Material	: 1086836, 1086835, 1086834, 1086833, 1086832, 1086831,
	1086830, 1103414, 1101981, 1101976, 1102002, 1101977,
	1101978, 1103410, 1101979, 1101980

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

1.3	Relevant Identified Uses Supported	:	Manufacture of plastics products
1.5	Details of the supplier of th	e s	afety 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
SDS	S Number:100000000597		1/14

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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 (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: 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 SDS Number:10000000597 2/14

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Slovenia:	Phone	number:	112
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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

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.

2.3

Other hazards Results of PBT and vPvB assessment	: 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.
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 3: Composition/information on ingredients

3.1 - **3.2**

Substance or Mixture

Hazardous ingredients

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	rlex® 9238 Polye	zunyi	ene			
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VCI						
	Chemical name	EC	S-No. -No. ex No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]	Specific Conc. Limits, M-factors and ATEs
	Polyethylene Hexene Copolymer	25213	-02-9		95 - 100	
[Contains no hazardous	ingredi	ents acco	ording to GHS. :		
SEC	CTION 4: First aid meas	ures				
4.1	Description of first-aid	l meas	ures			
	If inhaled		: Move	to fresh air in case of ac	cidental inhalati	on of dust or
				s from overheating or co physician.	mbustion. If sym	nptoms persist,
	In case of skin contact		imme	molten material gets on diate medical attention. rial from the skin or use s	Do not try to pee	el the solidified
	In case of eye contact			case of contact with eye ter and seek medical ad		ately with plenty
	If swallowed		: Do no	ot induce vomiting withou	It medical advice).
4.2	Most important sympton					
	Notes to physician	oms ar	nd effect	s, both acute and dela	yed	
		oms ar		s, both acute and delay	yed	
4.3	Notes to physician		: No da : No da	ata available. ata available.		ď
4.3	Notes to physician Symptoms Risks		: No da : No da nedical	ata available. ata available.		d
	Notes to physician Symptoms Risks Indication of any imme	ediate r	: No da : No da nedical : No da	ata available. ata available. attention and special t		d
	Notes to physician Symptoms Risks Indication of any imme Treatment	ediate r	: No da : No da nedical : No da	ata available. ata available. attention and special t		۰d
	Notes to physician Symptoms Risks Indication of any imme Treatment	ediate r easure	: No da : No da nedical : No da : s : No da	ata available. ata available. attention and special t ata available.		d
	Notes to physician Symptoms Risks Indication of any imme Treatment CTION 5: Firefighting m	ediate r easure	: No da : No da nedical : No da : s : No da	ata available. ata available. attention and special t ata available. ata available		d
SEC	Notes to physician Symptoms Risks Indication of any imme Treatment CTION 5: Firefighting m Flash point Autoignition temperature	ediate r easure	: No da medical : No da : Soam foggir applic surfac create exting	ata available. ata available. attention and special t ata available. ata available	nical. Carbon dia lid be applied as surface burning i ter will spread th of straight stream sk of a dust explo	oxide (CO2). a spray from a material. The ne burning ns that may osion. Use o local
SEC	Notes to physician Symptoms Risks Indication of any imme Treatment CTION 5: Firefighting m Flash point Autoignition temperature Extinguishing media Suitable extinguishing	ediate r easure	 No da No da medical No da 	ata available. ata available. attention and special tr atta available. ata available ata available ata available r. Water mist. Dry chem If possible, water shound ng nozzle since this is a cation of high velocity water cation of high velocity water cation of high velocity water by a dust cloud and the rist guishing measures that a mstances and the surrou	nical. Carbon dia lid be applied as surface burning i ter will spread th of straight stream sk of a dust explo	oxide (CO2). a spray from a material. The ne burning ns that may osion. Use o local

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VOI			
	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.
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.
SEC	CTION 6: Accidental release	me	asures
6.1	Personal proceptions, prot	octi	ive equipment and emergency procedures
	-		
6.2	Personal precautions	:	Sweep up to prevent slipping hazard. Avoid breathing dust. Avoid dust formation.
	Environmental precautions	;	
	Environmental precautions	:	Do not contaminate surface water. Prevent product from entering drains.
6.3			
	Methods and materials for Methods for cleaning up	con :	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	5	
	Reference to other sections	:	For personal protection see section 8. For disposal considerations see section 13.
0			
SEC	CTION 7: Handling and stora	ge	
SEC 7.1	CTION 7: Handling and stora Precautions for safe handli Handling	-	
	Precautions for safe handli	-	Use good housekeeping for safe handling of the product. Keep out of water sources and sewers. Spilled pellets may create a slipping hazard.

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		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	, 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.
	German storage class	: Combustible Solids
7.3	Specific End Use Use	: Manufacture of plastics products
SEC	CTION 8: Exposure controls/	personal protection
8.2	Exposure controls Engineering measures	
8.2	Engineering measures Consider the potential hazard activities, and other substance personal protective equipment exposure to harmful levels of recommended. The user sho	
8.2	Engineering measures Consider the potential hazard activities, and other substance personal protective equipment exposure to harmful levels of recommended. The user sho	es in the work place when designing engineering controls and selecting it. If engineering controls or work practices are not adequate to prevent this material, the personal protective equipment listed below is ould read and understand all instructions and limitations supplied with in is usually provided for a limited time or under certain circumstances.
8.2	Engineering measures Consider the potential hazard activities, and other substanc personal protective equipmen exposure to harmful levels of recommended. The user sho the equipment since protection	es in the work place when designing engineering controls and selecting it. If engineering controls or work practices are not adequate to prevent this material, the personal protective equipment listed below is ould read and understand all instructions and limitations supplied with in is usually provided for a limited time or under certain circumstances.

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	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.
ECTION 9: Physical and chen	nical properties
.1 Information on basic phys	sical 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.
Molecular weight	: Not applicable
рН	: Not applicable
	: 90-140°C (194-284°F)
Melting point/range	. 90-140 C (194-204 F)

 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

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	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- : I		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
9.2	Other information Conductivity	:	No data available
SE(CTION 10: Stability and react	ivity	
10 4			
10.1	Reactivity	:	This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure.
10.1	Reactivity 2 Chemical stability		ambient and anticipated storage and handling conditions of
10.2	Reactivity 2 Chemical stability	:	ambient and anticipated storage and handling conditions of temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
	Reactivity Chemical stability Possibility of hazardous rea	: actic	ambient and anticipated storage and handling conditions of temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
10.2 10.3	Reactivity Chemical stability Possibility of hazardous rea	: actic	ambient and anticipated storage and handling conditions of temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
10.2	Reactivity Chemical stability Possibility of hazardous rea	: actic :	ambient and anticipated storage and handling conditions of temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
0.2 0.3	Reactivity Chemical stability Possibility of hazardous rea Conditions to avoid	: actic :	ambient and anticipated storage and handling conditions of temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

arlex® 9238 Polyethy	Revision Date 2024-0 acids) depending on temperature and air availability. Incomplete combustion can also produce formaldehyde.
Other data	: No decomposition if stored and applied as directed.
CTION 11: Toxicological infor	rmation
1 Information on toxicologica	al effects
Marlex® 9238 Polyethylene Acute oral toxicity	
Marlex® 9238 Polyethylene Acute inhalation toxicity	
Marlex® 9238 Polyethylene Acute dermal toxicity	
Marlex® 9238 Polyethylene Skin irritation	: No skin irritation
Marlex® 9238 Polyethylene Eye irritation	: No eye irritation
Marlex® 9238 Polyethylene Sensitization	: Did not cause sensitization on laboratory animals.
Marlex® 9238 Polyethylene Aspiration toxicity Toxicology Assessment	: No data available.
Marlex® 9238 Polyethylene Specific Target Organ Toxicity (Single Exposure)	: Remarks: No adverse effects expected
Marlex® 9238 Polyethylene Specific Target Organ Toxicity (Repeated Exposure)	: Remarks: No adverse effects expected
Marlex® 9238 Polyethylene CMR effects	 Carcinogenicity: No adverse effects expected Mutagenicity: No adverse effects expected Reproductive toxicity: No adverse effects expected
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Information on other hazards			
Marlex® 9238 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.		
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 information	tion		
12.1 Toxicity			
Ecotoxicity effects			
Toxicity to fish	: Not a hazardous substance or mixture.		
12.2 Persistence and degradabil	ity		
Biodegradability	: This material is not expected to be readily biodegradable.		
12.3 Bioaccumulative potential Elimination information (persistence 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 as Results of PBT assessment			
12.6 Endocrine disrupting prope	rties		
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		
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	(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
2.7 Other adverse effects	
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.
2.8 Additional Information	
Ecotoxicology Assessment	
Short-term (acute) aquatic hazard	: This material is not expected to be harmful to aquatic organisms.
Long-term (chronic) aquatic hazard	: This material is not expected to be harmful to aquatic organisms.
SECTION 13: Disposal consider	ations

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.

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NOT REGULATED AS A HA	IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.					
NOT REGULATED AS A HA	ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE)) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.					
DANGEROUS GOODS (EUROI NOT REGULATED AS A HA	RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE)) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.					
OF DANGEROUS GOODS BY NOT REGULATED AS A HA	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 acc	ording to IMO instruments					
SECTION 15: Regulatory information	on					
15.1 Safety, health and environmer National legislation	Safety, health and environmental regulations/legislation specific for the substance or mixture					
Commission Regulation (EU) 20 the European Parliament and of	Commission Regulation (EU) 2020/878 of 18 June 2020 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 (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 Other AIIC New Zealand NZIoC Japan ENCS Korea KECI	 On the inventory, or in compliance with the inventory 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 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 All components of this product with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory A substance(s) in this product was not registered, 					
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	b Ir p tt a	y CPChem accordin mportation or manual ermitted provided the nemselves notified to mount does not exc	red, or exempted from registration ng to K-REACH regulations. facture of this product is still ne Korean Importer of Record has the substance or the exported ceed the minimum threshold egistered substance(s).
Philippines		In the inventory or	in compliance with the inventory
China IECS			in compliance with the inventory
Taiwan TCS			in compliance with the inventory
CTION 16: Ot	her information		
	Fire Haza Reactivity	Hazard: 0	
Further info Significant c previous ver	hanges since the last version a	are highlighted in the	e margin. This version replaces all
previous ver	510115.		
The information	tion in this SDS pertains only to	o the product as shi	pped.
information a guidance for not to be cor specific mate	safe handling, use, processing nsidered a warranty or quality s	lication. The inform g, storage, transpor specification. The in se valid for such ma	ation given is designed only as a tation, disposal and release and is
	Key or legend to abbreviations	and acronyms used	d in the safety data sheet
ACGIH	American Conference of Government Industrial Hygie	LD50	Lethal Dose 50%
AIIC	Australian Inventory of Indust Chemicals		Lowest Observed Adverse Effect
DSL	Canada, Domestic Substance	es NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic	NIOSH	National Institute for Occupational
CNS	Substances List Central Nervous System	NTP	Safety & Health National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals

EC50 NOAEL Effective Concentration No Observable Adverse Effect Level EC50 Effective Concentration 50% NOEC No Observed Effect Concentration EGEST EOSCA Generic Exposure Occupational Safety & Health OSHA Scenario Tool Administration European Oilfield Specialty EOSCA PEL Permissible Exposure Limit Chemicals Association European Inventory of Existing Philippines Inventory of Commercial Chemical Substances EINECS PICCS Chemical Substances MAK Germany Maximum Concentration PRNT Presumed Not Toxic Values

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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