

Marlex® HHM TR-392 Polyethylene

Version 1.1

Revision Date 2022-07-25

SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product information** Product Name : Marlex® HHM TR-392 Polvethvlene Material : 1122511, 1122510, 1122509, 1122508, 1122507 Company : Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380 **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: 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 SDS Number:100000103556 1/12

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Malta: +356 2395 200 The Netherlands: NVI Norway: 22 59 13 00 (Poland: BIG +32.14.58 Portugal: CIAV phone Romania: +402131836 Slovakia: +421 2 5477 Slovenia: Phone numb	C: +31 (0)88 755 8000 24 hours/day, 7 days/week) 84545 (phone) or +32.14583516 (telefax) number: +351 800 250 250 506 7 4166 per: 112 gency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (2 ek)
Responsible Department E-mail address Website	 Product Safety and Toxicology Group SDS@CPChem.com www.CPChem.com
	I CAUTION: Do not use this material in medical applications involving In the human body or permanent contact with internal body fluids or tissues
human body or contact w	n medical applications involving brief or temporary implantation in the ith internal body fluids or tissues unless the material has been provided illips Chemical Company LP or its legal affiliates under an agreement whic the contemplated use.
Chauran Dhilling Chamier	al Company LP and its legal affiliates makes no representation, promise,
express warranty or impli	ed warranty concerning the suitability of this material for use in implantation contact with internal body fluids or tissues.
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express warranty or impli in the human body or in c CTION 2: Hazards identifi Classification of the sul This product has been cla 1910.1200; the SDS and Classification Labeling Signal Word	ed warranty concerning the suitability of this material for use in implantation contact with internal body fluids or tissues. cation bstance or mixture assified in accordance with the hazard communication standard 29 CFR labels contain all the information as required by the standard. : Combustible dust : Warning : May form combustible dust concentrations in air. While this product may not be a combustible dust as sold, further processing or handling may form combustible dust
express warranty or impli in the human body or in c CTION 2: Hazards identifi Classification of the sul This product has been cla 1910.1200; the SDS and Classification Labeling Signal Word Hazard Statements	ed warranty concerning the suitability of this material for use in implantation contact with internal body fluids or tissues. cation bstance or mixture assified in accordance with the hazard communication standard 29 CFR labels contain all the information as required by the standard. : Combustible dust : Warning : May form combustible dust concentrations in air. While this product may not be a combustible dust as sold, further processing or handling may form combustible dust
express warranty or impli in the human body or in c CTION 2: Hazards identifi Classification of the sul This product has been cla 1910.1200; the SDS and Classification Labeling Signal Word Hazard Statements Potential Health Effects	ed warranty concerning the suitability of this material for use in implantation contact with internal body fluids or tissues. cation ostance or mixture assified in accordance with the hazard communication standard 29 CFR labels contain all the information as required by the standard. : Combustible dust : Warning : May form combustible dust concentrations in air. While this product may not be a combustible dust as sold, further processing or handling may form combustible dust concentration in air.

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Irlex® HHM TR-392	Polyetnyler	10	
sion 1.1			Revision Date 2022-
			ermal processing may cause atory tract.
Skin	significant ir Contact with response. If this materi Thermal bur	ritation. I the skin is not ial is heated, the	expected to cause prolonged or expected to cause an allergic ermal burns may result from contac pain or feeling of heat, d blistering.
Eyes	action. Not expecte	d to cause prole	cause irritation due to the abrasive onged or significant eye irritation. heated material contacts eye.
Ingestion	: Ingestion of	this product is i	not a likely route of exposure.
Carcinogenicity:			
IARC	No ingredient	t of this product	present at levels greater than or
	equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No ingredient of this product present at levels greater than or		
NTP	human carcir No ingredient equal to 0.1% by NTP.	hogen by IARC. t of this product 6 is identified as	
	human carcir No ingredient equal to 0.1% by NTP.	hogen by IARC. t of this product 6 is identified as	present at levels greater than or
CTION 3: Composition/infor	human carcir No ingredient equal to 0.1% by NTP. mation on ingre	nogen by IARC. t of this product 6 is identified as	present at levels greater than or a known or anticipated carcinogen
	human carcir No ingredient equal to 0.1% by NTP. mation on ingre	hogen by IARC. t of this product 6 is identified as	present at levels greater than or
CTION 3: Composition/inform	human carcir No ingredient equal to 0.1% by NTP. mation on ingre	nogen by IARC. t of this product 6 is identified as dients	present at levels greater than or a known or anticipated carcinogen
CTION 3: Composition/inform	human carcir No ingredient equal to 0.1% by NTP. mation on ingre	nogen by IARC. t of this product 6 is identified as dients	present at levels greater than or a known or anticipated carcinogen
CTION 3: Composition/inform Component Polyethylene Hexene Copoly	human carcir No ingredient equal to 0.1% by NTP. mation on ingre	nogen by IARC. t of this product 6 is identified as dients	present at levels greater than or a known or anticipated carcinogen
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CTION 3: Composition/inform Component Polyethylene Hexene Copoly CTION 4: First aid measures	human carcir No ingredient equal to 0.1% by NTP. mation on ingre mation on ingre call a physi : If the molte immediate i material fro : In the case	AS-No. 213-02-9 sh air in case o overheating or cian. n material gets medical attentio m the skin or us	present at levels greater than or a known or anticipated carcinogen Weight % 99 - 100 f accidental inhalation of dust or combustion. If symptoms persist, on skin, quickly cool in water. Seel on. Do not try to peel the solidified se solvents or thinners to dissolve it eyes, rinse immediately with plenty
Component Polyethylene Hexene Copoly CTION 4: First aid measures If inhaled In case of skin contact	human carcir No ingredient equal to 0.1% by NTP. mation on ingre mation on ingre call a physi i If the molte immediate i material fro i In the case of water an	AS-No. AS-No. 213-02-9 sh air in case of overheating or cian. n material gets medical attention m the skin or us of contact with d seek medical	present at levels greater than or a known or anticipated carcinogen Weight % 99 - 100 f accidental inhalation of dust or combustion. If symptoms persist, on skin, quickly cool in water. Seel on. Do not try to peel the solidified se solvents or thinners to dissolve it eyes, rinse immediately with plenty
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Component Polyethylene Hexene Copoly CTION 4: First aid measures If inhaled In case of skin contact In case of eye contact If swallowed	human carcir No ingredient equal to 0.1% by NTP. mation on ingre (CA ymer 252 : Move to fre fumes from call a physi : If the molte immediate i material fro : In the case of water an : Do not indu	AS-No. AS-No. 213-02-9 sh air in case of overheating or cian. n material gets medical attention m the skin or us of contact with d seek medical ace vomiting wit	present at levels greater than or a known or anticipated carcinogen Weight % 99 - 100 f accidental inhalation of dust or combustion. If symptoms persist, on skin, quickly cool in water. Seef n. Do not try to peel the solidified se solvents or thinners to dissolve it eyes, rinse immediately with plenty advice.

		SAFETY DATA SHEET
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Autoignition temperature	:	No data available
Suitable extinguishing media	:	Water. Water mist. Dry chemical. Carbon dioxide (CO2). Foam. If possible, water should be applied as a spray from a fogging nozzle since this is a surface burning material. The application of high velocity water will spread the burning surface layer. Avoid the use of straight streams that may create a dust cloud and the risk of a dust explosion. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards during fire fighting	:	Risks of ignition followed by flame propagation or secondary explosions can be caused by the accumulation of dust, e.g. on floors and ledges.
Special protective equipment for fire-fighters	:	Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	This material will burn although it is not easily ignited.
Fire and explosion protection	:	Treat as a solid that can burn. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Hazardous decomposition products	:	Normal combustion forms carbon dioxide, water vapor and may produce carbon monoxide, other hydrocarbons and hydrocarbon oxidation products (ketones, aldehydes, organic acids) depending on temperature and air availability. Incomplete combustion can also produce formaldehyde.
SECTION 6: Accidental release	me	asures
Personal precautions	:	Sweep up to prevent slipping hazard. Avoid breathing dust. Avoid dust formation.

SECTION 7	: Handling a	and storage
	. Humaning c	and storage

Environmental precautions

Methods for cleaning up

Additional advice

На	ndli	na

Advice on safe handling	: Use good housekeeping for safe handling of the product. Keep out of water sources and sewers. Spilled pellets may create a slipping hazard. Electrostatic charge may accumulate and create a hazardous
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entering drains.

compressed air).

:

: Do not contaminate surface water. Prevent product from

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

: Clean up promptly by sweeping or vacuum.

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Version 1.1 Revision Date 2022-07-25 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 Treat as a solid that can burn. Avoid generating dust; fine dust against fire and explosion dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Storage Requirements for storage Keep in a dry place. Keep in a well-ventilated place. areas and containers Advice on common storage : Do not store together with oxidizing and self-igniting products.

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

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Components	Basis	Value	Control parameters	Note
Nuisance Dust	OSHA Z-3	TWA	15 mg/m3	Total dust
	OSHA Z-3	TWA	5 mg/m3	(respirable dust)

Control as Particulate Not Otherwise Classified (PNOC). The ACGIH Guideline* for respirable dust is 3.0 mg/m3 and 10.0 mg/m3 for total dust. The OSHA PEL for respirable dust is 5.0 mg/m3 and 15.0 mg/m3 for total dust.

* This value is for inhalable (total) particulate matter containing no asbestos and < 1.0% crystalline silica.

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. Use a positive pressure, air-supplying respirator 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
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	olvethvlene
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	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 i 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.
TION 9: Physical and chemic	al properties
Information on basic physic	al and chemical properties
Appearance	
Form	: Pellets
Physical state	: solid
Color	: Opaque
Odor Odor Threshold	: Mild to no odor : No data available
Oddi Threshold	
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.
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Water solubility	: negligible
Partition coefficient: n- octanol/water	: No data available
Solubility in other solvents	: No data available
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Relative vapor density	: Not applicable
Evaporation rate	: Not applicable

SECTION 10: Stability and reactivity Reactivity : This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Chemical stability	:	This material is considered stable under normal ambient and
		anticipated storage and handling conditions of temperature and pressure.

Possibility of hazardous reactions

Conditions to avoid	: Avoid prolonged storage at elevated temperature.
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.

SECTION 11: Toxicological information

Marlex® HHM TR-392 PolyethyleneAcute oral toxicity: Presumed Not Toxic

Marlex® HHM TR-392 PolyethyleneAcute inhalation toxicity: Presumed Not Toxic

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Marlex® HHM TR-392 Polyethylene Skin irritation : No skin irritation					
Marlex® HHM TR-392 Polyethylene Eye irritation : No eye irritation					
Marlex® HHM TR-392 Polyethylene Sensitization : Did not cause sensitization on laboratory animals.					
Marlex® HHM TR-392 Poly Further information	 yethylene 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. 				
TION 12: Ecological infor	mation				
TION 12: Ecological Infor	mation				
Ecotoxicity effects	mation				
	: Not applicable				
Ecotoxicity effects	: Not applicable : No data available				
Ecotoxicity effects Toxicity to fish Toxicity to daphnia and	: Not applicable : No data available				
Ecotoxicity effects Toxicity to fish Toxicity to daphnia and other aquatic invertebrate Biodegradability	: Not applicable : No data available es				
Ecotoxicity effects Toxicity to fish Toxicity to daphnia and other aquatic invertebrate Biodegradability	 Not applicable No data available This material is not expected to be readily biodegradable. 				
Ecotoxicity effects Toxicity to fish Toxicity to daphnia and other aquatic invertebrate Biodegradability Elimination information (per	 Not applicable No data available S This material is not expected to be readily biodegradable. 				
Ecotoxicity effects Toxicity to fish Toxicity to daphnia and other aquatic invertebrate Biodegradability Elimination information (per Bioaccumulation	 Not applicable No data available This material is not expected to be readily biodegradable. rsistence and degradability) Does not bioaccumulate. 				
Ecotoxicity effects Toxicity to fish Toxicity to daphnia and other aquatic invertebrate Biodegradability Elimination information (per Bioaccumulation Mobility Additional ecological	 Not applicable No data available This material is not expected to be readily biodegradable. This material is not expected to be readily biodegradable. Toes not bioaccumulate. The product is insoluble and floats on water. This material is not expected to be harmful to aquatic organisms., Fish or birds may eat pellets which may obstruct their digestive tracts. 				
Ecotoxicity effects Toxicity to fish Toxicity to daphnia and other aquatic invertebrate Biodegradability Elimination information (per Bioaccumulation Mobility Additional ecological information	 Not applicable No data available This material is not expected to be readily biodegradable. This material is not expected to be readily biodegradable. Toes not bioaccumulate. The product is insoluble and floats on water. This material is not expected to be harmful to aquatic organisms., Fish or birds may eat pellets which may obstruct their digestive tracts. 				

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Long-term (chronic) aquatic : This product has no known ecotoxicological effects. hazard

SECTION 13: Disposal considerations

The information in this SDS pertains only to the product as shipped.

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

SECTION 14: Transport information

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

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

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

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

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

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

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE)) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

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

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

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

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Maritime transport in bulk according to IMO instruments					
SECTION 15: Regulatory information National legislation					
SARA 311/312 Hazards	: Combustible dust				
EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO – KNOW					
CERCLA Reportable Quantity	: This material does not contain any components with a CERCLA RQ.				
SARA 302 Reportable Quantity	: This material does not contain any components with a SARA 302 RQ.				
SARA 302 Threshold Planning Quantity	: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.				
SARA 304 Reportable Quantity	: This material does not contain any components with a section 304 EHS RQ.				
SARA 313 Components	: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.				
	oduct neither contains, nor was manufactured with a Class I or ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR				
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).					
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).					
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).					
US State Regulations					
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Pennsylvania Right To Know : California Prop. 65 : Components	No components are subject to the Pennsylvania Right to Know Act. This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.					
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). 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 Con the inventory, or in compliance with the inventory Inthis 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). 					
Philippines PICCS China IECSC Taiwan TCSI	 Not 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						
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.						
The information in this SDS pertains only to the product as shipped.						
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SAFETY DATA SHEET

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.

k	Key or legend to abbreviations and a	cronyms use	d in the safety data sheet
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		