

Marlex® HHM 5202 Polyethylene

Version 3.3

Revision Date 2024-10-24

SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product information** Product Name Marlex® HHM 5202 Polyethylene : 1018763, 1018041, 1018037, 1018767, 1018764, 1019865, Material 1019867, 1019333, 1019328, 1019330, 1019331, 1018766, 1017236, 1110384, 1019868, 1019870, 1018768, 1025097, 1018765, 1017232 Chevron Phillips Singapore Chemicals (Private) Limited Company 500 Aver Merbau Road Jurong Island Singapore 628286 SDS Requests: (800) 852-5530 Responsible Party: Product Safety Group Email:sds@cpchem.com **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) **Cvprus: 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) SDS Number:10000000715 1/12

Marlex® HHM 5202 Polyethylene

Version 3.3

Revision Date 2024-10-24

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 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** Classification of the substance or mixture This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard. Classification : Combustible dust Labeling

SDS Number:10000000715

Marlex® HHM 5202 Polyethylene

ersion 3.3	Revision Date 2024-10-2			
Signal Word	: Warning			
Hazard Statements	: 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.			
Potential Health Effects				
Physical Hazards	 Pellets may cause a slip hazard on hard surfaces. Mechanical processing may form combustible dust concentrations in air and thermal processing at elevated 			
Inhalation	 temperatures may generate formaldehyde. Repeated exposure to dust from this material may cause respiratory irritation. Fumes generated during thermal processing may cause 			
Skin	 irritation of the upper respiratory tract. Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic response. If this material is heated, thermal burns may result from contact. Thermal burns may include pain or feeling of heat, 			
Eyes	 discolorations, swelling, and blistering. Contact with the eyes may cause irritation due to the abrasive action. Not expected to cause prolonged or significant eye irritation. 			
Ingestion	Thermal burns may result if heated material contacts eye.Ingestion of this product is not a likely route of exposure.			
Carcinogenicity:				
IARC	No ingredient of this product present at levels greater than or			
	equal to 0.1% is identified as probable, possible or confirmed			
NTD	human carcinogen by IARC. No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.			
NTP	equal to 0.1% is identified as a known or anticipated carcinogen			
	equal to 0.1% is identified as a known or anticipated carcinogen by NTP.			
	equal to 0.1% is identified as a known or anticipated carcinogen by NTP.			
ECTION 3: Composition/inf	equal to 0.1% is identified as a known or anticipated carcinogen by NTP.			
	equal to 0.1% is identified as a known or anticipated carcinogen by NTP.			
ECTION 3: Composition/inf	equal to 0.1% is identified as a known or anticipated carcinogen by NTP. formation on ingredients CAS-No. Weight % polymer 25213-02-9 99 - 100			
ECTION 3: Composition/inf Component Polyethylene Hexene Cop	equal to 0.1% is identified as a known or anticipated carcinogen by NTP. formation on ingredients CAS-No. Weight % polymer 25213-02-9 99 - 100			
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ECTION 3: Composition/inf Component Polyethylene Hexene Cop ECTION 4: First aid measur	equal to 0.1% is identified as a known or anticipated carcinogen by NTP. formation on ingredients CAS-No. Weight % bolymer 25213-02-9 99 - 100 99 - 100			

rlex® HHM 5202 Po	lve	SAFETY DATA SH
sion 3.3	.yc	Revision Date 2024-1
		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.
TION 5: Firefighting measu	res	
Flash point	:	No data available
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.
TION 6: Accidental release	me	asures
Personal precautions	:	Sweep up to prevent slipping hazard. Avoid breathing dust. Avoid dust formation.
Environmental precautions	:	Do not contaminate surface water. Prevent product from entering drains.
Methods for 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
Number:100000000715		4/12

SAFETY DATA SHEET

Version 3.3

Revision Date 2024-10-24

dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

SECTION 7: Handling and storage

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.
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

Ingredients with workplace control parameters

US

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.

SDS Number:10000000715

SAFETY DATA SHEET

Version 3.3

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.
TION 9: Physical and che	adequate.
	adequate. mical properties
Information on basic phy	adequate.
Information on basic phy Appearance	adequate. mical properties vsical and chemical properties
Information on basic phy Appearance Form	adequate. mical properties
Information on basic phy Appearance Form Physical state Color	adequate. mical properties sical and chemical properties Pellets Solid Opaque
Information on basic phy Appearance Form Physical state Color Odor	adequate. mical properties rsical and chemical properties : Pellets : solid : Opaque : Mild to no odor
Information on basic phy Appearance Form Physical state Color	adequate. mical properties sical and chemical properties Pellets Solid Opaque
Information on basic phy Appearance Form Physical state Color Odor Odor Threshold	adequate. mical properties rsical and chemical properties : Pellets : solid : Opaque : Mild to no odor
Information on basic phy Appearance Form Physical state Color Odor	adequate. mical properties rsical and chemical properties : Pellets : solid : Opaque : Mild to no odor
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Information on basic phy Appearance Form Physical state Color Odor Odor Threshold Safety data Flash point Lower explosion limit Upper explosion limit Autoignition temperature	adequate. mical properties rsical and chemical properties : Pellets : solid : Opaque : Mild to no odor : No data available : No data available : Not applicable : Not applicable : No data available : Low molecular weight hydrocarbons, alcohols, aldehydes,

Marlex® HHM 5202 Polyethylene

Version 3.3

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- 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 reactive	vity	
SECTION 10: Stability and reactiv	vity :	This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure.
	vity :	This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of
Reactivity	:	This material is considered non-reactive under normal 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	: : ctic	This material is considered non-reactive under normal 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 read	: ctic	This material is considered non-reactive under normal 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 reac Conditions to avoid	: : : :	This material is considered non-reactive under normal 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. ons Avoid prolonged storage at elevated temperature.
Reactivity Chemical stability Possibility of hazardous read Conditions to avoid Materials to avoid	: : : :	This material is considered non-reactive under normal 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. Ons Avoid prolonged storage at elevated temperature. Avoid contact with strong oxidizing agents. Low molecular weight hydrocarbons, alcohols, aldehydes,
Reactivity Chemical stability Possibility of hazardous read Conditions to avoid Materials to avoid Thermal decomposition Hazardous decomposition	: : : :	This material is considered non-reactive under normal 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. DNS Avoid prolonged storage at elevated temperature. Avoid contact with strong oxidizing agents. Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing. 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.

Version 3.3

Other data	: No decomposition if stored and applied as directed.
SECTION 11: Toxicological inform	ation
Marlex® HHM 5202 Polyethyle Acute oral toxicity	
Marlex® HHM 5202 Polyethyle Acute inhalation toxicity	
Marlex® HHM 5202 Polyethyle Acute dermal toxicity	
Marlex® HHM 5202 Polyethyle Skin irritation	e ne : No skin irritation
Marlex® HHM 5202 Polyethyle Eye irritation	ne : No eye irritation
Marlex® HHM 5202 Polyethyle Sensitization	ne : Did not cause sensitization on laboratory animals.
Marlex® HHM 5202 Polyethyle Further information	 This product contains POLYMERIZED OLEFINS. During thermal processing (>350°F, >177°C) polyolefins can release vapors and gases (aldehydes,ketones and organic acids) which are irritating to the mucous membranes of the eyes, mouth, throat, and lungs. Generally these irritant effects are all transitory. However, prolonged exposure to irritating off-gases can lead to pulmonary edema. Formaldehyde (an aldehyde) has been classified as a carcinogen based on animal data and limited epidemiological evidence.
SECTION 12: Ecological information	on
Ecotoxicity effects	
Biodegradability	: This material is not expected to be readily biodegradable.
Elimination information (persiste	ence and degradability)
Bioaccumulation	: Does not bioaccumulate.
Mobility	: The product is insoluble and floats on water.
SDS Number:10000000715	8/12

SAFETY DATA SHEET

Version 3.3

Revision Date 2024-10-24

Additional ecological	: This material is not expected to be harmful to aquatic
information	organisms., Fish or birds may eat pellets which may obstruct
	their digestive tracts.

Ecotoxicology Assessment

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)

SDS Number:10000000715

9/12

Revision Date 2024-10-24

Version 3.3

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

SARA 311/312 Hazards	: Combustible dust
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 SARA 304 Reportable Quantity	 No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. 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.
Clean Air Act	
Ozone-Depletion : This Potential Class	product neither contains, nor was manufactured with a Class I or II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR subpt. A, App.A + B).
Ozone-Depletion : This Potential Class 82, S	s II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR subpt. A, App.A + B). nin any hazardous air pollutants (HAP), as defined by the U.S. Clean A
Ozone-Depletion Potential : This Class 82, S This product does not conta Act Section 112 (40 CFR 61 This product does not conta	s II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR subpt. A, App.A + B). ain any hazardous air pollutants (HAP), as defined by the U.S. Clean A I).
Ozone-Depletion Potential : This p Class 82, S This product does not conta Act Section 112 (40 CFR 61 This product does not conta Accidental Release Prevent	in any chemicals listed under the U.S. Clean Air Act Section 602 (40 CFR subpt. A, App.A + B). Ain any hazardous air pollutants (HAP), as defined by the U.S. Clean A I). Ain any chemicals listed under the U.S. Clean Air Act Section 112(r) for ain any chemicals listed under the U.S. Clean Air Act Section 111 SO
Ozone-Depletion Potential : This p Class 82, S This product does not conta Act Section 112 (40 CFR 61 This product does not conta Accidental Release Prevent This product does not conta	in any chemicals listed under the U.S. Clean Air Act Section 602 (40 CFR bubpt. A, App.A + B). Ain any hazardous air pollutants (HAP), as defined by the U.S. Clean A I). Ain any chemicals listed under the U.S. Clean Air Act Section 112(r) for ain any chemicals listed under the U.S. Clean Air Act Section 112(r) for ain any chemicals listed under the U.S. Clean Air Act Section 111 SO

Version 3.3

Pennsylvania Right To Know : California Prop. 65 : Components	No components are subject to the Pennsylvania Right to Know Act. This product, as shipped, does not contain any carcinogens or reproductive toxins presently known by the State of California to cause cancer or reproductive toxicity at a level of exposure subject to the requirements of California Proposition 65.
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL Australia 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 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 Chem 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	 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory
SECTION 16: Other information	
	Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0
Further information	
Significant changes since the la previous versions.	st version are highlighted in the margin. This version replaces all
The information in this SDS per	tains only to the product as shipped.
	Safety Data Sheet is correct to the best of our knowledge, the of its publication. The information given is designed only as a 11/12
	11/12

Marlex® HHM 5202 Polyethylene

Version 3.3

Revision Date 2024-10-24

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.

Key or legend to abbreviations and acronyms used in the safety data sheetACGIHAmerican Conference of Government Industrial HygienistsLD50Lethal Dose 50%AIICAustralian Inventory of Industrial ChemicalsLOAELLowest Observed Adverse E LevelDSLCanada, Domestic Substances ListNFPANational Fire Protection Ager Safety & HealthNDSLCanada, Non-Domestic Substances ListNIOSHNational Institute for Occupa Safety & HealthCNSCentral Nervous SystemNTPNational Toxicology Program CASEC50Effective ConcentrationNOAELNo Observable Adverse Effe	ncy tional
Chemicals Level DSL Canada, Domestic Substances List NFPA National Fire Protection Agent NIOSH NDSL Canada, Non-Domestic Substances List NIOSH National Institute for Occupat Safety & Health CNS Central Nervous System NTP National Toxicology Program CAS Chemical Abstract Service NZIOC New Zealand Inventory of Chemicals	ncy tional
List NIOSH National Institute for Occupation NDSL Canada, Non-Domestic NIOSH National Institute for Occupation Substances List Safety & Health Safety & Health CNS Central Nervous System NTP National Toxicology Program CAS Chemical Abstract Service NZloC New Zealand Inventory of Chemicals	tional
Substances List Safety & Health CNS Central Nervous System NTP National Toxicology Program CAS Chemical Abstract Service NZloC New Zealand Inventory of Chemicals	1
CAS Chemical Abstract Service NZIoC New Zealand Inventory of Chemicals	
CAS Chemical Abstract Service NZIoC New Zealand Inventory of Chemicals	
EC50 Effective Concentration NOAEL No Observable Adverse Effe	
	ct
EC50 Effective Concentration 50% NOEC No Observed Effect Concent	ration
EGEST EOSCA Generic Exposure OSHA Occupational Safety & Health Scenario Tool Administration	n
EOSCA European Oilfield Specialty PEL Permissible Exposure Limit Chemicals Association Permissible Exposure Limit Permissible Exposure Limit	
EINECS European Inventory of Existing PICCS Philippines Inventory of Chemical Substances Commercial Chemical Subst Commercial Chemical Subst	ances
MAK Germany Maximum Concentration PRNT Presumed Not Toxic Values	
GHS Globally Harmonized System RCRA Resource Conservation Rect Act	overy
>= 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 TLV Threshold Limit Value on Cancer	
IECSC Inventory of Existing Chemical TWA Time Weighted Average Substances in China TWA Time Weighted Average	
ENCS Japan, Inventory of Existing and TSCA Toxic Substance Control Act New Chemical Substances	
KECI Korea, Existing Chemical UVCB Unknown or Variable Compo Complex Reaction Products, Biological Materials	and
<= Less Than or Equal To WHMIS Workplace Hazardous Mater Information System	ials
LC50 Lethal Concentration 50% ATE Acute toxicity estimate	