

## Marlex® HHM 5502BN Polyethylene

Version 1.10

Revision Date 2023-08-07

according to GB/T 16483 and GB/T 17519

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

#### **Product information**

Product Name : Material :	Marlex® HHM 5502BN Polyethylene 1118573, 1127943, 1127844, 1124957, 1120264, 1120263, 1120262, 1120191, 1120190, 1018781, 1018783, 1079987, 1079986, 1079988, 1079981, 1079985, 1079984, 1025220, 1019346, 1018782, 1019345, 1019347, 1019348, 1019349, 1019350, 1018785, 1018784
Company :	Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
Mexico CHEMTREC 01-800 South America SOS-Cotec I Argentina: +(54)-115983943 EUROPE: BIG +32.14.5845 Austria: VIZ +43 1 406 43 43 Belgium: 070 245 245 (24 ho Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 Cyprus: 1401 Czech Republic: Toxicologic Denmark: Danish Poison Ce Estonia: BIG +32.14.584545 Finland: 0800 147 111 09 4 France: ORFILA number (IN Germany: BIG +32.14.584545 Greece: (0030) 2107793777 Hungary: +36-80-201-199 (2 Iceland: 543 2222 (24 hours Ireland: BIG +32.14.584545	al) or 703.527.3887(int'l) 9186 1132) China: 0532 8388 9090 -681-9531 (24 hours) nside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 11 45 (phone) or +32.14583516 (telefax) 3 (24 hours/day, 7 days/week) ours/day, 7 days/week) 4 hours/day, 7 days/week) 24 hours/day, 7 days/week) 25 (phone) or +32.14583516 (telefax) 71 977 (24 hours/day) RS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) 45 (phone) or +32.14583516 (telefax) 71 977 (24 hours/day) RS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) 45 (phone) or +32.14583516 (telefax) 71 977 (24 hours/day, 7 days/week) 45 (phone) or +32.14583516 (telefax) 71 977 (24 hours/day, 7 days/week) 45 (phone) or +32.14583516 (telefax) 71 977 (24 hours/day, 7 days/week) 24 hours/day, 7 days/week)
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Poisoning an 67042473. ( Liechtenstein Lithuania: +3	d Drug Information Ce 24 hours.) n: BIG +32.14.584545 ( 70 (85) 2362052 : (+352) 8002 5500 (24	nter, Hipokrāta 2, R phone) or +32.1458		
The Netherla Norway: 22 5 Poland: BIG Portugal: CIA Romania: +4 Slovakia: +42	nds: NVIC: +31 (0)88 7 59 13 00 (24 hours/day, +32.14.584545 (phone AV phone number: +357 0213183606 21 2 5477 4166	, 7 days/week) ) or +32.14583516 (	(telefax)	
Spain: Natior hours/day, 7			nish Poison Centre: +34 9	1 562 04 20 (24
Responsible De E-mail address Website	: SDS@	uct Safety and Toxic @CPChem.com CPChem.com	cology Group	
	antation in the human b		erial in medical application contact with internal body	
human body or o directly from Ch	contact with internal bo	dy fluids or tissues I Company LP or its	rief or temporary implanta unless the material has be legal affiliates under an a	en provided
express warrant		oncerning the suitat	tes makes no representat bility of this material for us tissues.	
SECTION 2: Hazard	s identification			
	-		8 15258 and GB 30000.2	to GB 30000.29
Form: Pellets	Physical state: solid	Color: Opaque	Odor: Mild to no odor	
Classification				
Not a hazardous	s substance or mixture.			
Labeling				
Not a hazardous	s substance or mixture.			
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## Marlex® HHM 5502BN Polyethylene

SAFETY DATA SHEET

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Chemical name			CAS-No. / EINECS-No.	Concentration [wt%]	
Polyethylene Hexene Copol	yme	ər	25213-02-9	99 - 100	
Contains no hazardous ingre			ng to GHS.		
TION 4: First aid measures					
If inhaled	:		esh air in case of accidental ir m overheating or combustion. sician.		
In case of skin contact	:	immediate	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	:		e of contact with eyes, rinse in nd seek medical advice.	nmediately with plenty	
If swallowed	:	Do not ind	luce vomiting without medical	advice.	
TION 5: Firefighting measu	res				
Flash point	:	No data a	vailable		
Autoignition temperature	:	No data av	vailable		
Suitable extinguishing media	:	Foam. If p fogging no application surface la create a d extinguish	ater mist. Dry chemical. Carb possible, water should be appl pzzle since this is a surface bu n of high velocity water will spr yer. Avoid the use of straight lust cloud and the risk of a dus ing measures that are approprinces and the surrounding envi	ied as a spray from a rning material. The ead the burning streams that may t explosion. Use riate to local	
Specific hazards during fire fighting	:		gnition followed by flame propa s can be caused by the accum ledges.		
Special protective equipment for fire-fighters	:		onal protective equipment. We apparatus for firefighting if neo		
Further information	:	This mate	rial will burn although it is not e	easily ignited.	
Fire and explosion protection	:	dispersed	a solid that can burn. Avoid ge in air in sufficient concentration of an ignition source is a poter	ons, and in the	
Hazardous decomposition products	:		ombustion forms carbon dioxid arbon monoxide, other hydroc		

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Version 1.10 Revision Date 2023-08-07 hydrocarbon oxidation products (ketones, aldehydes, organic acids) depending on temperature and air availability. Incomplete combustion can also produce formaldehyde. **SECTION 6: Accidental release measures** 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 dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). **SECTION 7: Handling and storage** Handling Use good housekeeping for safe handling of the product. Keep Advice on safe handling 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 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. SDS Number:10000000723 4/10

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#### **SECTION 8: Exposure controls/personal protection**

#### 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	<ul> <li>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.</li> <li>Dust safety masks are recommended when the dust concentration is excessive.</li> </ul>		
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 cher	nical properties		
Information on basic physical and chemical properties			

Appearance		
Form	: Pellets	
Physical state Color	: solid	
Odor	: Opaque : Mild to no odor	
Safety data		
Flash point	: No data available	
Lower explosion limit	: Not applicable	
Upper explosion limit	· Natappliashla	
opper explosion limit	: Not applicable	
Autoignition temperature	: No data available	
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rlex® HHM 5502BN P	0	vethvlene
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Thermal decomposition	:	Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing.
рН	:	Not applicable
Pour point	:	No data available
Melting point/freezing point		90-140°C (194-284°F)
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.
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
TION 10: Stability and reactiv	/ity	
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 read	ctio	ons
Conditions to avoid	:	Avoid prolonged storage at elevated temperature.
Materials to avoid		Avoid contact with strong oxidizing agents.

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rlex® HHM 5502BN F	olvethvlene
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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.
CTION 11: Toxicological inform	nation
Marlex® HHM 5502BN Polye Acute oral toxicity	thylene : Presumed Not Toxic
Marlex® HHM 5502BN Polye Acute inhalation toxicity	
Marlex® HHM 5502BN Polye Acute dermal toxicity	thylene : Presumed Not Toxic
Marlex® HHM 5502BN Polye Skin irritation	thylene : No skin irritation
Marlex® HHM 5502BN Polye Eye irritation	thylene : No eye irritation
Marlex® HHM 5502BN Polye Further information	<ul> <li>thylene</li> <li>This product contains POLYMERIZED OLEFINS. During thermal processing (&gt;350°F, &gt;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.</li> </ul>
CTION 12: Ecological informat	tion
Ecotoxicity effects	
Toxicity to fish	: Not applicable
Toxicity to daphnia and other aquatic invertebrates	: No data available
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	Biodegradability	:	Result: This material is not expected to be readily biodegradable.	
	Elimination information (persist	en	ce and degradability)	
	Bioaccumulation	:	Does not bioaccumulate.	
	Mobility	:	The product is insoluble and floats on water.	
	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.	
	Ecotoxicology Assessment			
	Short-term (acute) aquatic hazard	:	This product has no known ecotoxicological effects.	
	Long-term (chronic) aquatic hazard	:	This product has no known ecotoxicological effects.	
SEC	TION 13: Disposal considerat	tio	ns	
	The information in this SDS pe	rta	ins 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			

SECTION 14: Transport information

disposal facility.

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.

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Version 1.10 Revision Date 2023-08-07 ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE)) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY. **RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))** NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY. ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY. Maritime transport in bulk according to IMO instruments **SECTION 15: Regulatory information Notification status** Europe REACH This product is in full compliance according to REACH regulation 1907/2006/EC. On the inventory, or in compliance with the inventory Switzerland CH INV United States of America (USA) On or in compliance with the active portion of the TSCA **TSCA** inventory Canada DSL All components of this product are on the Canadian DSL Australia AIIC On the inventory, or in compliance with the inventory New Zealand NZIoC On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory Japan ENCS On the inventory, or in compliance with the inventory Philippines PICCS 2 Korea KECI All substances in this product were registered, notified to be registered, or exempted from registration by CPChem through an Only Representative according to K-REACH regulations. Importation of this product is permitted if the Korean Importer of Record was included on CPChem's notifications or if the Importer of Record themselves notified the substances. Taiwan TCSI On the inventory, or in compliance with the inventory China IECSC On the inventory, or in compliance with the inventory 5 **SECTION 16: Other information Further information** Legacy SDS Number : 240370 SDS Number:10000000723 9/10

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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.

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.

Ke	ey or legend to abbreviations and a	cronyms used i	n the safety data sheet
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AIIC	Australian Inventory of Industrial Chemicals	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%	ATE	Acute toxicity estimate