

Marlex® HHM 5502 Polyethylene

Version 1.8

Revision Date 2024-10-24

according to GB/T 16483 and GB/T 17519

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

Product Name	
Material	 Marlex® HHM 5502 Polyethylene 1028245, 1028221, 1024752, 1017252, 1108009, 1068493 1094604, 1017280, 1017249, 1017250, 1017255, 1025099 1017251
Company	: Chevron Phillips Singapore Chemicals (Private) Limited 500 Ayer Merbau Road Jurong Island Singapore 628286
	SDS Requests: (800) 852-5530 Responsible Party: Product Safety Group Email:sds@cpchem.com
Emergency telephone:	
Health:	(marian)
Asia: CHEMWATCH (Mexico CHEMTREC 0 South America SOS-0 Argentina: +(54)-1159 EUROPE: BIG +32.14 Austria: VIZ +43 1 406 Belgium: 070 245 245	national) 9300 or 703.527.3887(int'l) +612 9186 1132) China: 0532 8388 9090 01-800-681-9531 (24 hours) Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 839431 .584545 (phone) or +32.14583516 (telefax) 5 43 43 (24 hours/day, 7 days/week) (24 hours/day, 7 days/week)
1.832.813.4984 (Interr Transport : CHEMTREC 800.424. Asia: CHEMWATCH (Mexico CHEMTREC 0 South America SOS-C Argentina: +(54)-1159 EUROPE: BIG +32.14 Austria: VIZ +43 1 406 Belgium: 070 245 245 Bulgaria: +359 2 9154	national) 9300 or 703.527.3887(int'l) +612 9186 1132) China: 0532 8388 9090 01-800-681-9531 (24 hours) Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 839431 .584545 (phone) or +32.14583516 (telefax) 5 43 43 (24 hours/day, 7 days/week) (24 hours/day, 7 days/week)
1.832.813.4984 (Interr Transport : CHEMTREC 800.424. Asia: CHEMWATCH (Mexico CHEMTREC 0 South America SOS-C Argentina: +(54)-1159 EUROPE: BIG +32.14 Austria: VIZ +43 1 406 Belgium: 070 245 245 Bulgaria: +359 2 9154 Croatia: +3851 2348 3 Cyprus: 1401 Czech Republic: Toxic Denmark: Danish Pois Estonia: BIG +32.14.5 Finland: 0800 147 111 France: ORFILA numb	national) 9300 or 703.527.3887(int'l) +612 9186 1132) China: 0532 8388 9090 01-800-681-9531 (24 hours) Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 839431 .584545 (phone) or +32.14583516 (telefax) 5 43 43 (24 hours/day, 7 days/week) (24 hours/day, 7 days/week) 233

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Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week) Iceland: 543 2222 (24 hours/day, 7 days/week) Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Italy: POISON CENTER MILAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 66101029; POISON CENTER ROME - Policlinico "Agostino Gemelli", Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME - Ospedale Pediatrico Bambino Gesù Tel. +39 06 68593726; POISON CENTER ROME - Policlinico "Umberto I" Tel. +39 06 4997 8000; POISON CENTER FOGGIA - Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER NAPLES – Azienda Ospedaliera "Antonio Cardarelli" Tel. +39 081 7472870; POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055 7947819; POISON CENTER PAVIA - IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 24444; POISON CENTER BERGAMO – Azienda Ospedaliera "Papa Giovanni XXIII" Tel. 800 883 300; POISON CENTER VERONA - Azienda Ospedaliera Universitaria integrata Tel. 800 011 858; Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 67042473. (24 hours.) Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Lithuania: +370 (85) 2362052 Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week) Malta: +356 2395 2000 The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week) Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Portugal: CIAV phone number: +351 800 250 250 Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112 Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week) Sweden: 112 - ask for Poisons Information Responsible Department : Product Safety and Toxicology Group E-mail address : SDS@CPChem.com 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 GHS Classification and Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29 (GHS 2013) **Emergency Overview** Form: Pellets Physical state: solid Color: Opaque Odor: Mild to no odor SDS Number:10000000721 2/10

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Classification

Not a hazardous substance or mixture.

Labeling

Not a hazardous substance or mixture.

SECTION 3: Composition/information on ingredients

Chemical name		CAS-No. / EINECS-No.	Concentration [wt%]	
Polyethylene Hexene Copo			99 - 100	
Contains no hazardous ingre		nts according to GHS.		
TION 4: First aid measures				
If inhaled	:	Move to fresh air in case of accidental in fumes from overheating or combustion. call a physician.		
In case of skin contact	:	If the molten material gets on skin, quick immediate medical attention. Do not try material from the skin or use solvents or	to peel the solidified	
In case of eye contact	:	In the case of contact with eyes, rinse in of water and seek medical advice.	nmediately with plenty	
If swallowed	:	Do not induce vomiting without medical	advice.	
TION 5: Firefighting measu	res			
Flash point	:	No data available		
Autoignition temperature	:	No data available		
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 propa explosions can be caused by the accum floors and ledges.		

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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 dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
TION 7: Handling and stora	age	
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		

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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

Engineering measures

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

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

SECTION 9: Physical and chemical properties

Appearance	
Form Physical state Color Odor Odor Threshold	 Pellets solid Opaque Mild to no odor No data available
Safety data	

adequate.

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Flash point	: No data available
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Autoignition temperature	: No data available
Thermal decomposition	: Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing.
рН	: Not applicable
Melting point/ range	: 90-140°C (194-284°F)
Freezing point	Not applicable
Initial boiling point and boiling range	: Not applicable
Vapor pressure	: Not applicable
Relative density	: Not applicable
Density	: 0.91 - 0.97 g/cm3 Please refer to the Technical Data Sheet (TDS) for more detailed information relating to the nominal physical properties, including density, of this polyethylene resin grade.
Water solubility	: negligible
Partition coefficient: n- 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 reactiv	ity
Reactivity	: This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure.

SDS Number:10000000721

Chemical stability This material is considered stable under normal ambient an 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 produce arbon monoxide, other hydrocarbons and hydrocarbon oxidation products (ketones, adehydes, orga acids) depending on temperature and air availability. Incomplete combustion forms carbon diaxibility. Incomplete combustion can also produce formaldehyde. Other data : No decomposition if stored and applied as directed. CTION 11: Toxicological information Marlex® HHM 5502 Polyethylene Acute oral toxicity Acute inhalation toxicity : Presumed Not Toxic Marlex® HHM 5502 Polyethylene Skin irritation : No skin irritation Marlex@ HHM 5502 Polyethylene Skin irritation : No skin irritation Marlex@ HHM 5502 Polyethylene Eye irritation : No skin irritation Marlex@ HHM 5502 Polyethylene Eye irritation : No skin irritation Marlex@ HHM 5502 Polyethylene Eye irritation : No skin irritation Marlex@ HHM 5502 Polyethylene Eye irritation : No eye irritation Marlex@ HHM 5502 Polyethylene Eye irritation	ihremical stability : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. rossibility of hazardous reactions :: Avoid prolonged storage at elevated temperature. Itaterials to avoid : Avoid contact with strong oxidizing agents. hermal decomposition :: Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing. lazardous decomposition :: 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. Nther data :: No decomposition if stored and applied as directed. ION 11: Toxicological information : tarlex® HHM 5502 Polyethylene cute oral toxicity : Presumed Not Toxic tarlex® HHM 5502 Polyethylene is in irritation : No skin irritation tarlex® HHM 5502 Polyethylene is in irritation : No skin irritation tarlex® HHM 5502 Polyethylene is in so skin irritation : No skin irritation tarlex® HHM 5502 Polyethylene is irritation : No skin irritation tarlex® HHM 5502 Polyethylene is irritation : No skin irritation tarlex® HHM 5502 Polyethylene is irritation : No skin irritation t	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 : Normal combustion forms carbon dioxide, water vapor and may produce carbon monoxide, other hydrocarbons 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 information Marlex® HHM 5502 Polyethylene Acute oral toxicity Acute oral toxicity : Presumed Not Toxic Marlex® HHM 5502 Polyethylene Acute dermal toxicity : Presumed Not Toxic Marlex® HHM 5502 Polyethylene Skin irritation : No skin irritation Marlex® HHM 5502 Polyethylene Eye irritation : No eye irritation Marlex® HHM 5502 Polyethylene Eye irritation : No skin irritation Marlex® HHM 5502 Polyethylene Eye irritation : No eye irritation Marlex® HHM 5502 Polyethylene Eye irritation : No eye irritation M		Revision Date 2024-10-2				
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Version 1.8

Revision Date 2024-10-24

Endocrine disrupting properties

SECTION 12: Ecological information

Ecotoxicity effects Biodegradability : This material is not expected to be readily biodegradable. Elimination information (persistence and degradability) Bioaccumulation : Does not bioaccumulate. Mobility : The product is insoluble and floats on water. Endocrine disrupting : properties 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)

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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.

Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

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 A substance(s) in this 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	:	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

SDS Number:10000000721

Version 1.8

Revision Date 2024-10-24

SECTION 16: Other information

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.

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 used	d in 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