

Marlex® HXM 50100 Polyethylene

Version 1.4

Revision Date 2019-12-05

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	Marlex® HXM 50100 Polyethylene
	Material :	1094603, 1116983, 1116954, 1116953, 1116952, 1018750, 1017219
	Company :	Chevron Phillips Singapore Chemicals (Private) Limited 500 Ayer Merbau Road Jurong Island Singapore 628286
		SDS Requests: (800) 852-5530 Technical Information: (832) 813-4862 Responsible Party: Product Safety Group Email:sds@cpchem.com
	Emergency telephone:	
	EUROPE: BIG +32.14.5845 Mexico CHEMTREC 01-800	al) or 703.527.3887(int'l) 9186 1132) China: 0532 8388 9090 45 (phone) or +32.14583516 (telefax) -681-9531 (24 hours) nside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
		Product Safety and Toxicology Group SDS@CPChem.com www.CPChem.com
		TION: Do not use this material in medical applications involving numan body or permanent contact with internal body fluids or tissues
	human body or contact with inte	ical applications involving brief or temporary implantation in the ernal body fluids or tissues unless the material has been provided chemical Company LP or its legal affiliates under an agreement which ntemplated use.
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Odor: Mild to no odor

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 2011)

Emergency Overview

Form: Pellets Physical state: Solid Color: Opaque

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 Copolymer	25213-02-9	99 - 100
Contains no hazardous ingredients acc	ording to GHS.	
SECTION 4: First aid measures	ording to GHS.	

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If inhaled	:	Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
In case of skin contact	:	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	:	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.

SECTION 5: Firefighting meas	ures
Flash point	: No data available
Autoignition temperature	: No data available
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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.
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TION 6: Accidental release	me	asures
TION 6: Accidental release	me	asures
TION 6: Accidental release	:	asures Sweep up to prevent slipping hazard. Avoid breathing dust. Avoid dust formation.
	:	Sweep up to prevent slipping hazard. Avoid breathing dust.
Personal precautions	:	Sweep up to prevent slipping hazard. Avoid breathing dust. Avoid dust formation. Do not contaminate surface water. Prevent product from
Personal precautions Environmental precautions	:	Sweep up to prevent slipping hazard. Avoid breathing dust. Avoid dust formation. Do not contaminate surface water. Prevent product from entering drains.
Personal precautions Environmental precautions Methods for cleaning up	::	Sweep up to prevent slipping hazard. Avoid breathing dust. Avoid dust formation. Do not contaminate surface water. Prevent product from entering drains. Clean up promptly by sweeping or vacuum. 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
Personal precautions Environmental precautions Methods for cleaning up Additional advice	::	Sweep up to prevent slipping hazard. Avoid breathing dust. Avoid dust formation. Do not contaminate surface water. Prevent product from entering drains. Clean up promptly by sweeping or vacuum. 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
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Personal precautions Environmental precautions Methods for cleaning up Additional advice	::	Sweep up to prevent slipping hazard. Avoid breathing dust. Avoid dust formation. Do not contaminate surface water. Prevent product from entering drains. Clean up promptly by sweeping or vacuum. 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).
Personal precautions Environmental precautions Methods for cleaning up Additional advice	::	Sweep up to prevent slipping hazard. Avoid breathing dust. Avoid dust formation. Do not contaminate surface water. Prevent product from entering drains. Clean up promptly by sweeping or vacuum. 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).

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		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/	/per	sonal 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. Use a positive pressure, air- supplying respirator if there is potential for uncontrolled release, 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
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material is heated, wear insulated clothing to prevent skin contact if engineering controls or work practices are not adequate.

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		
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 processin
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 grad
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

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Relative vapor density	: Not applicable
Evaporation rate	: Not applicable
TION 10: Stability and reacti	vity
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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 rea	ctions
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.
TION 11: Toxicological infor	mation
Marlex® HXM 50100 Polyeth Acute oral toxicity	
Marlex® HXM 50100 Polyeth Acute inhalation toxicity	
Marlex® HXM 50100 Polyeth Acute dermal toxicity	
Marlex® HXM 50100 Polyeth Skin irritation	
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Eye irritation	: No eye irritation
Marlex® HXM 50100 Poly Sensitization	yethylene : Did not cause sensitization on laboratory animals.
Marlex® HXM 50100 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.
CTION 12: Ecological info	rmation
Biodegradability	: This material is not expected to be readily biodegradable.
Elimination information (pe	ersistence 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 Assessm	,
Ecotoxicology Assessm CTION 13: Disposal consid	ent
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CTION 13: Disposal consider The information in this SD Use material for its intender may meet the criteria of a other State and local regu regulated components ma	ent
CTION 13: Disposal consider The information in this SD Use material for its intender may meet the criteria of a other State and local regu regulated components man classified as a hazardous	derations DS pertains only to the product as shipped. ed purpose or recycle if possible. This material, if it must be discarded, hazardous waste as defined by US EPA under RCRA (40 CFR 261) or lations. Measurement of certain physical properties and analysis for ay be necessary to make a correct determination. If this material is waste, federal law requires disposal at a licensed hazardous waste
CTION 13: Disposal consider The information in this SD Use material for its intender may meet the criteria of a other State and local reguregulated components man classified as a hazardous disposal facility. CTION 14: Transport infor The shipping description	derations DS pertains only to the product as shipped. ed purpose or recycle if possible. This material, if it must be discarded, hazardous waste as defined by US EPA under RCRA (40 CFR 261) or lations. Measurement of certain physical properties and analysis for ay be necessary to make a correct determination. If this material is waste, federal law requires disposal at a licensed hazardous waste
CTION 13: Disposal consider The information in this SD Use material for its intended may meet the criteria of a other State and local reguregulated components match classified as a hazardous disposal facility. CTION 14: Transport infor The shipping description shipments in non-bulk p Consult the appropriate do	derations OS pertains only to the product as shipped. ed purpose or recycle if possible. This material, if it must be discarded, hazardous waste as defined by US EPA under RCRA (40 CFR 261) or ilations. Measurement of certain physical properties and analysis for ay be necessary to make a correct determination. If this material is waste, federal law requires disposal at a licensed hazardous waste mation ms shown here are for bulk shipments only, and may not apply to

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etc.) Therefore, the information she description for the material. Flashp bill of lading.	own here, may not always agree with the bill of lading shipping points for the material may vary slightly between the SDS and th
	RTMENT OF TRANSPORTATION) RDOUS MATERIAL OR DANGEROUS GOODS FOR AGENCY.
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OF DANGEROUS GOODS BY INI	RDOUS MATERIAL ÓR DANGEROUS GOODS FOR
nsport in bulk according to Annex CTION 15: Regulatory information	II of MARPOL 73/78 and the IBC Code
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL	 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
Australia AICS New Zealand NZIoC Japan ENCS	On the inventory, or in compliance with the inventoryOn the inventory, or in compliance with the inventory

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		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.
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

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.

ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effe
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agenc
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupation 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 Concentra
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 Substar
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recov 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 Composi Complex Reaction Products, a Biological Materials

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<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

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