

Marlex® HXM 50100-01 Polyethylene

Version 3.2

Revision Date 2019-10-17

ECTION 1: Identification o	the substance/mixture and of the company/unde	ertaking
Product information		
Product Name Material	 Marlex® HXM 50100-01 Polyethylene 1019318, 1018756, 1018021, 1018025, 101 1018753, 1019320, 1018755, 1019321, 101 1019317, 1018754 	
Company	: Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380	
Emergency telephone:		
Asia: CHEMWATCH EUROPE: BIG +32.14 Mexico CHEMTREC	ational) 9300 or 703.527.3887(int'l) -612 9186 1132) China: 0532 8388 9090 584545 (phone) or +32.14583516 (telefax) 1-800-681-9531 (24 hours) otec Inside Brazil: 0800.111.767 Outside Brazil: +55	5.19.3467.1600
Responsible Department E-mail address Website	 Product Safety and Toxicology Group SDS@CPChem.com www.CPChem.com 	
	CAUTION: Do not use this material in medical app the human body or permanent contact with internal	
human body or contact v	medical applications involving brief or temporary in th internal body fluids or tissues unless the material lips Chemical Company LP or its legal affiliates und he contemplated use.	has been provided
express warranty or impl	I Company LP and its legal affiliates makes no repre- ed warranty concerning the suitability of this material ontact with internal body fluids or tissues.	

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SECTION 2: Hazards identification

: Combustible dust
: Warning
: May form combustible dust concentrations in air. While this product may not be a combustible dust as sold, further processing or handling may form combustible dust concentration in air.
: Pellets may cause a slip hazard on hard surfaces. Mechanical processing may form combustible dust concentrations in air and thermal processing at elevated temperatures may generate formaldehyde.
 Repeated exposure to dust from this material may cause respiratory irritation. Fumes generated during thermal processing may cause 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, 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. Thermal burns may result if heated material contacts eye.
: Ingestion of this product is not a likely route of exposure.
No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No ingredient of this product present at levels greater than or
equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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Component Polyethylene Hexene Copoly	(moo	r	CAS-No. 25213-02-9	Weight % 99 - 100
	yme	I	25215-02-9	99 - 100
TION 4: First aid measures	;			
If inhaled	:	fumes f		of accidental inhalation of dust or or combustion. If symptoms persis
In case of skin contact	:	immedi	ate medical attent	s on skin, quickly cool in water. Se ion. Do not try to peel the solidified use solvents or thinners to dissolve
In case of eye contact	:		ase of contact with r and seek medica	n eyes, rinse immediately with pler al advice.
If swallowed	:	Do not	induce vomiting w	ithout medical advice.
TION 5: Firefighting measu	ires			
Flash point	:	No data	a available	
Autoignition temperature	:	No data	a available	
Suitable extinguishing media	:	Foam. fogging applica surface create a extingu	If possible, water nozzle since this tion of high velocit layer. Avoid the a dust cloud and th ishing measures the	chemical. Carbon dioxide (CO2). should be applied as a spray from is a surface burning material. The y water will spread the burning use of straight streams that may he risk of a dust explosion. Use hat are appropriate to local irrounding environment.
Specific hazards during fire fighting	:	explosi		by flame propagation or secondary d by the accumulation of dust, e.g.
Special protective equipment for fire-fighters	:			equipment. Wear self-contained refighting if necessary.
Further information	:	This ma	aterial will burn altl	nough it is not easily ignited.
Fire and explosion protection	:	dispers	ed in air in sufficie ce of an ignition so	ourn. Avoid generating dust; fine c nt concentrations, and in the ource is a potential dust explosion
Hazardous decomposition products	:	produce	e carbon monoxide	s carbon dioxide, water vapor and i e, other hydrocarbons and oducts (ketones, aldehydes, organ

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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

Advice on safe handling	Use good housekeeping for safe h Keep out of water sources and sev	
	Spilled pellets and powders may c	reate a slipping hazard.
	Electrostatic charge may accumula condition when handling this mater bonding and grounding may be ner themselves be sufficient. At elevat >177°C), polyethylene can release are irritating to the mucous membr throat, and lungs. These substance acetaldehyde, acetone, acetic acid and acrolein. Based on animal dat epidemiological evidence, formalde carcinogen. Following all recomme should minimize exposure to therm	ial. To minimize this hazard, cessary, but may not by red temperatures (>350°F, vapors and gases, which anes of the eyes, mouth, es may include , formic acid, formaldehyde a and limited ehyde has been listed as a endations within this SDS
Advice on protection against fire and explosion	Treat as a solid that can burn. Aven dispersed in air in sufficient concer presence of an ignition source is a hazard.	ntrations, and in the
Storage		
Requirements for storage areas and containers	Keep in a dry place. Keep in a we	I-ventilated place.
Advice on common storage	Do not store together with oxidizing	g and self-igniting products.
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SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

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SI

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

Control as Particulate Not Otherwise Classified (PNOC). The ACGIH Guideline* for respirable dust is 3.0 mg/m3 and 10.0 mg/m3 for total dust. The OSHA PEL for respirable dust is 5.0 mg/m3 and 15.0 mg/m3 for total dust. * This value is for inhalable (total) particulate matter containing no asbestos and < 1.0% crystalline silica.

Engineering measures

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

Personal protective equipment

Respiratory protection	:	No respiratory protection is normally required. If heated material generates vapor or fumes that are not adequately controlled by ventilation, wear an appropriate respirator. Use the following elements for air-purifying respirators: Organic Vapor and Formaldehyde. Use a positive pressure, air- supplying respirator if there is potential for uncontrolled release, 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.
ECTION 9: Physical and cher	nica	properties

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

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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)
Melting point/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
TION 10: Stability and reacti	vity
Reactivity	: This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure.

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Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous rea	actions
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 info	
Marlov® HYM 50100-01 Doly	vethylene
Marlex® HXM 50100-01 Poly Acute inhalation toxicity	
Acute inhalation toxicity Marlex® HXM 50100-01 Poly	: Presumed Not Toxic
	: Presumed Not Toxic /ethylene : Presumed Not Toxic
Acute inhalation toxicity Marlex® HXM 50100-01 Poly Acute dermal toxicity Marlex® HXM 50100-01 Poly	: Presumed Not Toxic /ethylene : Presumed Not Toxic /ethylene
Acute inhalation toxicity Marlex® HXM 50100-01 Poly Acute dermal toxicity Marlex® HXM 50100-01 Poly Skin irritation Marlex® HXM 50100-01 Poly	 Presumed Not Toxic yethylene Presumed Not Toxic yethylene No skin irritation
Acute inhalation toxicity Marlex® HXM 50100-01 Poly Acute dermal toxicity Marlex® HXM 50100-01 Poly	 Presumed Not Toxic Presumed Not Toxic
Acute inhalation toxicity Marlex® HXM 50100-01 Poly Acute dermal toxicity Marlex® HXM 50100-01 Poly Skin irritation Marlex® HXM 50100-01 Poly Eye irritation	 Presumed Not Toxic Presumed Not Toxic

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

SECTION 13: Disposal considerations

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

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

SECTION 14: Transport information

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

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

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

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

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR

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TRANSPORTATION BY THIS AGENCY.

	IR TRANSPORT ASSOCIATION) A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
	ANGEROUS GOODS BY ROAD (EUROPE)) A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
DANGEROUS GOODS (EU	HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR
OF DANGEROUS GOODS	MENT CONCERNING THE INTERNATIONAL CARRIAGE BY INLAND WATERWAYS) A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
	Annex II of MARPOL 73/78 and the IBC Code
SECTION 15: Regulatory inform	nation
National legislation	
SARA 311/312 Hazards	
	: Combustible dust
CERCLA Reportable Quantity	 Combustible dust This material does not contain any components with a CERCLA RQ.
•	: This material does not contain any components with a CERCLA
Quantity SARA 302 Reportable	 This material does not contain any components with a CERCLA RQ. This material does not contain any components with a SARA
Quantity SARA 302 Reportable Quantity SARA 302 Threshold	 This material does not contain any components with a CERCLA RQ. This material does not contain any components with a SARA 302 RQ. No chemicals in this material are subject to the reporting
Quantity SARA 302 Reportable Quantity SARA 302 Threshold Planning Quantity SARA 304 Reportable	 This material does not contain any components with a CERCLA RQ. This material does not contain any components with a SARA 302 RQ. 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

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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	
Potential Class I	roduct 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 bpt. A, App.A + B).
This product does not contain Act Section 112 (40 CFR 61).	n any hazardous air pollutants (HAP), as defined by the U.S. Clean Ai
	a any chemicals listed under the U.S. Clean Air Act Section 112(r) for on (40 CFR 68.130, Subpart F).
This product does not contain Intermediate or Final VOC's (a any chemicals listed under the U.S. Clean Air Act Section 111 SOC 40 CFR 60.489).
JS State Regulations	
Pennsylvania Right To Know	
	: No components are subject to the Pennsylvania Right to Know Act.
California Prop. 65 Components	
•	 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. Con 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
Components Notification status Europe REACH Switzerland CH INV United States of America (US TSCA	 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. 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

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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

NFPA Classification	: Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0	0 0
Further information Legacy SDS Number	: 240370	

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

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

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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	LD50	Lethal Dose 50%
	Government Industrial Hygienists		
AICS	Australia, Inventory of Chemical	LOAEL	Lowest Observed Adverse Effect
	Substances		Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic	NIOSH	National Institute for Occupationa
	Substances List		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 Substance
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

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			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%		

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