

## Marlex® HXM TR-571-C20 Polyethylene

Version 3.2

Revision Date 2019-10-17

## SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product information** Product Name : Marlex® HXM TR-571-C20 Polyethylene 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:** 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 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) 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 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.

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TION 2: Hazards identif	ication
	<b>bstance or mixture</b> assified in accordance with the hazard communication standard 29 CFR labels contain all the information as required by the standard.
Classification	: Combustible dust
Labeling	
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 temperatures may generate formaldehyde.
Inhalation	<ul> <li>Repeated exposure to dust from this material may cause respiratory irritation.</li> <li>Fumes generated during thermal processing may cause irritation of the upper respiratory tract.</li> </ul>
Skin	<ul> <li>Contact with the skin is not expected to cause prolonged or significant irritation.</li> <li>Contact with the skin is not expected to cause an allergic response.</li> <li>If this material is heated, thermal burns may result from contact.</li> <li>Thermal burns may include pain or feeling of heat, discolorations, swelling, and blistering.</li> </ul>
Eyes	<ul> <li>Contact with the eyes may cause irritation due to the abrasive action.</li> <li>Not expected to cause prolonged or significant eye irritation.</li> <li>Thermal burns may result if heated material contacts eye.</li> </ul>
Ingestion	: 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
NTP	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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TION 3: Composition/inforr	matri		
Component		CAS-No.	Weight %
Polyethylene Hexene Copoly	mer	25213-02-9	99 - 100
TION 4: First aid measures			
If inhaled			accidental inhalation of dust or combustion. If symptoms persist,
In case of skin contact		immediate medical attention	on skin, quickly cool in water. Seek n. Do not try to peel the solidified e solvents or thinners to dissolve it
In case of eye contact		In the case of contact with e of water and seek medical a	eyes, rinse immediately with plenty advice.
If swallowed	:	Do not induce vomiting with	out medical advice.
TION 5: Firefighting measu	res		
Flash point	:	No data available	
Autoignition temperature	:	No data available	
Suitable extinguishing media		Foam. If possible, water sh fogging nozzle since this is application of high velocity surface layer. Avoid the us	
Specific hazards during fire fighting			I flame propagation or secondary by the accumulation of dust, e.g. on
Special protective equipment for fire-fighters		Use personal protective equip terming apparatus for fire	uipment. Wear self-contained fighting if necessary.
Further information	:	This material will burn altho	ugh it is not easily ignited.
Fire and explosion protection		dispersed in air in sufficient	rn. Avoid generating dust; fine dus concentrations, and in the rce is a potential dust explosion
Hazardous decomposition	:	Normal combustion forms of	arbon dioxide, water vapor and ma

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products		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	ge	
Handling		
Advice on safe handling	:	Use good housekeeping for safe handling of the product. Keep out of water sources and sewers.
		Spilled pellets and powders 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.

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

#### Ingredients with workplace control parameters

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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

#### **SECTION 9: Physical and chemical properties**

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

adequate.

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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 processing.
рН	: Not applicable
Melting point/range	: 90 - 140 °C (194 - 284 °F)
Melting point/freezing point	Not applicable
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
CTION 10: Stability and reactiv	rity
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 re	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	
	: Presumed Not Toxic
	Polyethylene
Acute inhalation toxicity Marlex® HXM TR-571-C20 I	Polyethylene : Presumed Not Toxic
Acute inhalation toxicity Marlex® HXM TR-571-C20 I Acute dermal toxicity Marlex® HXM TR-571-C20 I	Polyethylene : Presumed Not Toxic Polyethylene : Presumed Not Toxic
Acute inhalation toxicity Marlex® HXM TR-571-C20 F Acute dermal toxicity Marlex® HXM TR-571-C20 F Skin irritation Marlex® HXM TR-571-C20 F	<ul> <li>Polyethylene <ul> <li>Polyethylene</li> <li>Presumed Not Toxic</li> </ul> </li> <li>Polyethylene <ul> <li>No skin irritation</li> </ul> </li> </ul>
Marlex® HXM TR-571-C20 F Acute inhalation toxicity Marlex® HXM TR-571-C20 F Acute dermal toxicity Marlex® HXM TR-571-C20 F Skin irritation Marlex® HXM TR-571-C20 F Eye irritation Marlex® HXM TR-571-C20 F Sensitization	<ul> <li>Polyethylene <ul> <li>Presumed Not Toxic</li> </ul> </li> <li>Polyethylene <ul> <li>Polyethylene</li> <li>No skin irritation</li> </ul> </li> <li>Polyethylene <ul> <li>No skin irritation</li> </ul> </li> </ul>
Acute inhalation toxicity Marlex® HXM TR-571-C20 F Acute dermal toxicity Marlex® HXM TR-571-C20 F Skin irritation Marlex® HXM TR-571-C20 F Eye irritation	<ul> <li>Polyethylene <ul> <li>Presumed Not Toxic</li> </ul> </li> <li>Polyethylene <ul> <li>Polyethylene</li> <li>No skin irritation</li> </ul> </li> <li>Polyethylene <ul> <li>No eye irritation</li> </ul> </li> <li>Polyethylene <ul> <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 al 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 the set of the set of</li></ul></li></ul>
Acute inhalation toxicity Marlex® HXM TR-571-C20 F Acute dermal toxicity Marlex® HXM TR-571-C20 F Skin irritation Marlex® HXM TR-571-C20 F Sensitization Marlex® HXM TR-571-C20 F	<ul> <li>Polyethylene <ul> <li>Presumed Not Toxic</li> </ul> </li> <li>Polyethylene <ul> <li>Presumed Not Toxic</li> </ul> </li> <li>Polyethylene <ul> <li>No skin irritation</li> </ul> </li> <li>Polyethylene <ul> <li>No eye irritation</li> </ul> </li> <li>Polyethylene <ul> <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 al transitory. However, prolonged exposure to irritating off-gases can lead to pulmonary edema. Formaldehyde (an aldehyde)</li> </ul></li></ul>

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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.

	<b>IR TRANSPORT ASSOCIATION)</b> A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR 7 THIS AGENCY.
	<b>ANGEROUS GOODS BY ROAD (EUROPE))</b> A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR ′ THIS AGENCY.
DANGEROUS GOODS (EL	A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR
OF DANGEROUS GOODS	EMENT CONCERNING THE INTERNATIONAL CARRIAGE BY INLAND WATERWAYS) A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR 7 THIS AGENCY.
ransport in bulk according to	Annex II of MARPOL 73/78 and the IBC Code
SECTION 15: Regulatory infor	mation
SECTION 15: Regulatory infor National legislation	mation
	mation : Combustible dust
National legislation	
National legislation SARA 311/312 Hazards CERCLA Reportable	: Combustible dust : This material does not contain any components with a CERCLA
National legislation SARA 311/312 Hazards CERCLA Reportable Quantity SARA 302 Reportable	<ul> <li>Combustible dust</li> <li>This material does not contain any components with a CERCLA RQ.</li> <li>This material does not contain any components with a SARA</li> </ul>
National legislation SARA 311/312 Hazards CERCLA Reportable Quantity SARA 302 Reportable Quantity SARA 302 Threshold	<ul> <li>Combustible dust</li> <li>This material does not contain any components with a CERCLA RQ.</li> <li>This material does not contain any components with a SARA 302 RQ.</li> <li>No chemicals in this material are subject to the reporting</li> </ul>
National legislation SARA 311/312 Hazards CERCLA Reportable Quantity SARA 302 Reportable Quantity SARA 302 Threshold Planning Quantity SARA 304 Reportable	<ul> <li>Combustible dust</li> <li>This material does not contain any components with a CERCLA RQ.</li> <li>This material does not contain any components with a SARA 302 RQ.</li> <li>No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.</li> <li>This material does not contain any components with a section</li> </ul>

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	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 II	duct neither contains, nor was manufactured with a Class I or ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR ot. A, App.A + B).
This product does not contain a Act Section 112 (40 CFR 61).	any hazardous air pollutants (HAP), as defined by the U.S. Clean A
This product does not contain a Accidental Release Prevention	any chemicals listed under the U.S. Clean Air Act Section 112(r) for (40 CFR 68.130, Subpart F).
This product does not contain a Intermediate or Final VOC's (40	any chemicals listed under the U.S. Clean Air Act Section 111 SOC 0 CFR 60.489).
JS State Regulations	
Pennsylvania Right To Know	<ul> <li>No components are subject to the Pennsylvania Right to Know Act.</li> <li>This product, as shipped, does not contain any carcinogens or</li> </ul>
Pennsylvania Right To Know : California Prop. 65 Components	
California Prop. 65 Components Notification status Europe REACH Switzerland CH INV United States of America (USA TSCA Canada DSL	<ul> <li>Act.</li> <li>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.</li> <li>Con the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On or in compliance with the active portion of the TSCA inventory</li> <li>All components of this product are on the Canadian DSL</li> </ul>
California Prop. 65 Components Notification status Europe REACH Switzerland CH INV United States of America (USA TSCA	<ul> <li>Act.</li> <li>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.</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On or in compliance with the active portion of the TSCA inventory</li> <li>All components of this product are on the Canadian</li> </ul>

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SAFETY DATA SHEET

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**

NFPA Classification : Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0

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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.

ACGIH	American Conference of	LD50	Lethal Dose 50%
	Government Industrial Hygienists		
AICS	Australia, Inventory of Chemical	LOAEL	Lowest Observed Adverse Effe
	Substances		Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic	NIOSH	National Institute for Occupatio
	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
		NOALL	Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentrat
EGEST	EOSCA Generic Exposure	OSHA	Occupational Safety & Health
	Scenario Tool		Administration
EOSCA	European Oilfield Specialty	PEL	Permissible Exposure Limit
	Chemicals Association		
EINECS	European Inventory of Existing	PICCS	Philippines Inventory of
	Chemical Substances		Commercial Chemical Substan
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recover
			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	TLV	Threshold Limit Value
	on Cancer		
IECSC	Inventory of Existing Chemical	TWA	Time Weighted Average
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	Substances in China		
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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