

Marlex® HHM TR-257 Polyethylene

Version 3.3

Revision Date 2019-10-17

CTION 1: Identification of the substance/mixture and of the company/undertaking			
Product information Product Name Material		® HHM TR-257 Polyethylene)3, 1078489, 1078488, 1078491, 1078487, 1078502,)0	
Company	10001 S	n Phillips Chemical Company LP Six Pines Drive podlands, TX 77380	
Emergency telephone:			
EUROPE: BIG +32.14. Mexico CHEMTREC 0 ²	ational) 9300 or 703.527 -612 9186 1132 584545 (phone) 1-800-681-9531 otec Inside Braz	2) China: 0532 8388 9090 e) or +32.14583516 (telefax)	
Responsible Department E-mail address Website	: SDS@C	t Safety and Toxicology Group CPChem.com PChem.com	
		o not use this material in medical applications involving dy or permanent contact with internal body fluids or tissues	\$
human body or contact wit	th internal body lips Chemical C	cations involving brief or temporary implantation in the / fluids or tissues unless the material has been provided Company LP or its legal affiliates under an agreement whic ed use.	:h
	ed warranty con	and its legal affiliates makes no representation, promise, ncerning the suitability of this material for use in implantatio rnal body fluids or tissues.	'n
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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 enticipated exclosed
equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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TION 3: Composition/inform	natio	n on ingredients	
Component		CAS-No.	Weight %
Polyethylene Hexene Copoly	mer	25213-02-9	99 - 100
TION 4: First aid measures			
If inhaled	f		se of accidental inhalation of dust or g or combustion. If symptoms persist,
In case of skin contact	i	mmediate medical atte	gets on skin, quickly cool in water. Seek ention. Do not try to peel the solidified or use solvents or thinners to dissolve it
In case of eye contact		n the case of contact of water and seek med	with eyes, rinse immediately with plenty lical advice.
If swallowed	: [Do not induce vomiting	without medical advice.
TION 5: Firefighting measu	res		
Flash point	: 1	No data available	
Autoignition temperature	: 1	lo data available	
Suitable extinguishing media	l f a s c e	Foam. If possible, wat ogging nozzle since th application of high velo surface layer. Avoid th create a dust cloud an extinguishing measure	ry chemical. Carbon dioxide (CO2). er should be applied as a spray from a his is a surface burning material. The ocity water will spread the burning he use of straight streams that may d the risk of a dust explosion. Use s that are appropriate to local surrounding environment.
Specific hazards during fire fighting	e		ed by flame propagation or secondary sed by the accumulation of dust, e.g. or
Special protective equipment for fire-fighters			e equipment. Wear self-contained r firefighting if necessary.
Further information	: -	This material will burn	although it is not easily ignited.
Fire and explosion protection	C F	dispersed in air in suffi	in burn. Avoid generating dust; fine dus cient concentrations, and in the source is a potential dust explosion
Hazardous decomposition products	F	produce carbon mono	ms carbon dioxide, water vapor and ma kide, other hydrocarbons and products (ketones, aldehydes, organic

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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 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.
Advice on common storage	: Do not store together with oxidizing and self-igniting products.
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SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

US

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.

Information on basic physical and chemical properties		
Appearance		
Form Color Odor Odor Threshold	 Pellets Opaque Mild to no odor No data available 	
Safety data		
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101	Flash point		No data available
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	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	:	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-	:	No data available
	octanol/water Solubility in other solvents	:	No data available
	Viscosity, dynamic	:	Not applicable
	Viscosity, kinematic	:	Not applicable
	Relative vapor density	:	Not applicable
	Evaporation rate	:	Not applicable
SEC	CTION 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.

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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
Hazardous reactions	: Hazardous reactions: None known.
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.
	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
CTION 11: Toxicological infor	mation
TION 11: Toxicological infor Marlex® HHM TR-257 Polyet Acute oral toxicity	
Marlex® HHM TR-257 Polyet	thylene : Presumed Not Toxic thylene
Marlex® HHM TR-257 Polyet Acute oral toxicity Marlex® HHM TR-257 Polyet	thylene : Presumed Not Toxic thylene : Presumed Not Toxic thylene
Marlex® HHM TR-257 Polyet Acute oral toxicity Marlex® HHM TR-257 Polyet Acute inhalation toxicity Marlex® HHM TR-257 Polyet	thylene : Presumed Not Toxic thylene : Presumed Not Toxic thylene : Presumed Not Toxic
Marlex® HHM TR-257 Polyet Acute oral toxicity Marlex® HHM TR-257 Polyet Acute inhalation toxicity Marlex® HHM TR-257 Polyet Acute dermal toxicity Marlex® HHM TR-257 Polyet	 thylene Presumed Not Toxic thylene Presumed Not Toxic thylene No skin irritation
Marlex® HHM TR-257 Polyet Acute oral toxicity Marlex® HHM TR-257 Polyet Acute inhalation toxicity Marlex® HHM TR-257 Polyet Acute dermal toxicity Marlex® HHM TR-257 Polyet Skin irritation Marlex® HHM TR-257 Polyet	<pre>thylene : Presumed Not Toxic thylene : Presumed Not Toxic thylene : Presumed Not Toxic thylene : No skin irritation thylene : No eye irritation thylene</pre>
Marlex® HHM TR-257 Polyet Acute oral toxicity Marlex® HHM TR-257 Polyet Acute inhalation toxicity Marlex® HHM TR-257 Polyet Acute dermal toxicity Marlex® HHM TR-257 Polyet Skin irritation Marlex® HHM TR-257 Polyet Eye irritation	 thylene Presumed Not Toxic thylene Presumed Not Toxic thylene No skin irritation thylene No eye irritation thylene No eye irritation thylene No eye irritation

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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.

SECTION 12: Ecological information

Ecotoxicity effects	
Toxicity to fish	: Not applicable
Toxicity to daphnia and other aquatic invertebrates	: No data available
Biodegradability	: This material is not expected to be readily biodegradable.
Elimination information (persist	tence and degradability)
Bioaccumulation	: Does not bioaccumulate.
Mobility	: The product is insoluble and floats on water.
Results of PBT assessment	: Non-classified vPvB substance
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.

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).

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Goods Regulations for addi etc.) Therefore, the information	mestic or international mode-specific and quantity-specific Dangerous itional shipping description requirements (e.g., technical name or names, ation shown here, may not always agree with the bill of lading shipping Flashpoints for the material may vary slightly between the SDS and the
	S DEPARTMENT OF TRANSPORTATION) A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR (THIS AGENCY.
	NAL MARITIME DANGEROUS GOODS) A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR (THIS AGENCY.
	I R 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 (EI	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 (THIS AGENCY.
	o Annex II of MARPOL 73/78 and the IBC Code
ECTION 15: Regulatory infor	mation
National legislation	
SARA 311/312 Hazards	: Combustible dust
CERCLA Reportable Quantity	: This material does not contain any components with a CERCLA RQ.
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SARA 302 Reportable Quantity	 This material does not contain any components with a SARA 302 RQ.
SARA 302 Threshold Planning Quantity	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 304 Reportable Quantity	 This material does not contain any components with a section 304 EHS RQ.
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 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 Air
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 (4	any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI 0 CFR 60.489).
US State Regulations	
Pennsylvania Right To Know	: No components are subject to the Pennsylvania Right to Know Act.
California Prop. 65 Components	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.
Notification status Europe REACH	: This mixture contains only ingredients which have been registered according to Regulation (EU) No. 1907/2006
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SAFETY DATA SHEET

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Switzerland CH INV United States of America (USA) TSCA Canada DSL Australia AICS New Zealand NZIoC Japan ENCS Korea KECI		(REACH). 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 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.			
Philippines PICCS China IECSC	:	On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory			
Taiwan TCSI	:	On the inventory, or in compliance with the inventory			
SECTION 16: Other information					
F	Fire Ha	Hazard: 0 izard: 1 rity Hazard: 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.

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	NFPA	National Fire Protection Agency
	List		
NDSL	Canada, Non-Domestic	NIOSH	National Institute for Occupation
	Substances List		Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program

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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	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 Substances
MAK	Germany Maximum Concentration	PRNT	Presumed Not Toxic
	Values		
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	TLV	Threshold Limit Value
	on Cancer		
IECSC	Inventory of Existing Chemical	TWA	Time Weighted Average
	Substances in China		
ENCS	Japan, Inventory of Existing and	TSCA	Toxic Substance Control Act
	New Chemical Substances		
KECI	Korea, Existing Chemical	UVCB	Unknown or Variable Composition,
	Inventory		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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