Marlex® HHM TR-144-C28 Polyethylene

Version 1.4

Revision Date 2019-10-17

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2015/830

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

1.1

 Product Name
 :
 Marlex® HHM TR-144-C28 Polyethylene

 Material
 :
 1101467, 1101466, 1101464, 1101465

1.3

Details of the supplier	of the safety data sheet
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	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
	Local :	Chevron Phillips Chemicals International N.V. Airport Plaza (Stockholm Building) Leonardo Da Vincilaan 19 1831 Diegem Belgium
		SDS Requests: (800) 852-5530 Technical Information: (832) 813-4862 Responsible Party: Product Safety Group Email:sds@cpchem.com
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	Emergency telephone:	
		lý r 703.527.3887(int'l) 186 1132) China: 0532 8388 9090 ŀ5 (phone) or +32.14583516 (telefax)
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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.

SECTION 2: Hazards identification

2.1

Classification of the substance or mixture **REGULATION (EC) No 1272/2008**

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2

Labeling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

SECTION 3: Composition/information on ingredients

3.1 - 3.2

Substance or Mixture

Hazardous ingredients

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]	
Polyethylene Hexene Copolymer	25213-02-9		99 - 100	
Contains no hazardous ingredients according to GHS. :				

:

SECTION 4: First aid measures

4.1

Description of first-aid measures

If inhaled

Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist,

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		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 measures

-			
	Flash point	:	No data available
	Autoignition temperature	:	No data available
5.1			
	Extinguishing media		
	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.
5.2	Special hazards arising from Specific hazards during fire	m ti	
	fighting		explosions can be caused by the accumulation of dust, e.g. on floors and ledges.
5.3	Advice for firefighters		
	Advice for firefighters 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.

SECTION 6: Accidental release measures

6.1

Personal precautions, protective equipment and emergency procedures

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	Personal precautions	Sweep up to prevent slipping hazard. Avoid breathing dust. Avoid dust formation.
6.2	Environmental precautions	
	Environmental precautions	Do not contaminate surface water. Prevent product from entering drains.
6.3	Methods and materials for co Methods for cleaning up	ontainment and 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).
6.4	Reference to other sections	
SEC	CTION 7: Handling and storage	9
7.1	Precautions for safe handling Handling	9
	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.
7.2	Conditions for safe storage, Storage	including any incompatibilities
	ororaye	
	Requirements for storage areas and containers	Keep in a dry place. Keep in a well-ventilated place.

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Advice on common storage

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: Do not store together with oxidizing and self-igniting products.

SECTION 8: Exposure controls/personal protection

8.2

Exposure controls 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.

SECTION 9: Physical and chemical properties

9.1

9.1	Information on basic phys	ical 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
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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 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 reactive	vitv
10.1	
Reactivity	: This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure.
10.2	
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Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
0.3	
Possibility of hazardous rea	octions
).4	
Conditions to avoid	: Avoid prolonged storage at elevated temperature.
0.5 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.
0.6 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.
	l effects
1.1 Information on toxicologica Marlex® HHM TR-144-C28 P Acute oral toxicity	
Information on toxicologica Marlex® HHM TR-144-C28 P	olyethylene : Presumed Not Toxic olyethylene
Information on toxicologica Marlex® HHM TR-144-C28 P Acute oral toxicity Marlex® HHM TR-144-C28 P	olyethylene : Presumed Not Toxic olyethylene : Presumed Not Toxic
Information on toxicologica Marlex® HHM TR-144-C28 P Acute oral toxicity Marlex® HHM TR-144-C28 P Acute inhalation toxicity Marlex® HHM TR-144-C28 P	olyethylene : Presumed Not Toxic olyethylene : Presumed Not Toxic olyethylene : Presumed Not Toxic
Information on toxicologica Marlex® HHM TR-144-C28 P Acute oral toxicity Marlex® HHM TR-144-C28 P Acute inhalation toxicity Marlex® HHM TR-144-C28 P Acute dermal toxicity Marlex® HHM TR-144-C28 P	olyethylene : Presumed Not Toxic olyethylene : Presumed Not Toxic olyethylene : Presumed Not Toxic olyethylene : No skin irritation
Information on toxicologica Marlex® HHM TR-144-C28 P Acute oral toxicity Marlex® HHM TR-144-C28 P Acute inhalation toxicity Marlex® HHM TR-144-C28 P Acute dermal toxicity Marlex® HHM TR-144-C28 P Skin irritation	 olyethylene Presumed Not Toxic olyethylene Presumed Not Toxic olyethylene No skin irritation olyethylene No eye irritation
Marlex® HHM TR-144-C28 P Acute oral toxicity Marlex® HHM TR-144-C28 P Acute inhalation toxicity Marlex® HHM TR-144-C28 P Acute dermal toxicity Marlex® HHM TR-144-C28 P Skin irritation Marlex® HHM TR-144-C28 P Eye irritation	 olyethylene Presumed Not Toxic olyethylene Presumed Not Toxic olyethylene Presumed Not Toxic olyethylene No skin irritation olyethylene No eye irritation olyethylene No eye irritation olyethylene No eye irritation
Information on toxicologica Marlex® HHM TR-144-C28 P Acute oral toxicity Marlex® HHM TR-144-C28 P Acute inhalation toxicity Marlex® HHM TR-144-C28 P Acute dermal toxicity Marlex® HHM TR-144-C28 P Skin irritation Marlex® HHM TR-144-C28 P Eye irritation	 olyethylene Presumed Not Toxic olyethylene Presumed Not Toxic olyethylene Presumed Not Toxic olyethylene No skin irritation olyethylene No eye irritation olyethylene No eye irritation olyethylene No eye irritation

SAFETY DATA SHEET Marlex® HHM TR-144-C28 Polyethylene Version 1.4 Revision Date 2019-10-17 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** 12.1 Toxicity **Ecotoxicity effects** 12.2 Persistence and degradability Biodegradability : This material is not expected to be readily biodegradable. 12.3 **Bioaccumulative potential** Elimination information (persistence and degradability) Bioaccumulation : Does not bioaccumulate. 12.4 Mobility in soil Mobility : The product is insoluble and floats on water. 12.5 Results of PBT and vPvB assessment 12.6 Other adverse effects 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** 13.1 Waste treatment methods 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** 14.1 - 14.7

Transport information

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The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).				
etc.) Therefore, the information shown here, may	otion requirements (e.g., technical name or names,			
US DOT (UNITED STATES DEPARTMENT OF NOT REGULATED AS A HAZARDOUS MAT TRANSPORTATION BY THIS AGENCY.				
IMO / IMDG (INTERNATIONAL MARITIME DAN NOT REGULATED AS A HAZARDOUS MAT TRANSPORTATION BY THIS AGENCY.				
IATA (INTERNATIONAL AIR TRANSPORT AS NOT REGULATED AS A HAZARDOUS MAT TRANSPORTATION BY THIS AGENCY.				
ADR (AGREEMENT ON DANGEROUS GOODS NOT REGULATED AS A HAZARDOUS MAT TRANSPORTATION BY THIS AGENCY.				
RID (REGULATIONS CONCERNING THE INTE DANGEROUS GOODS (EUROPE)) NOT REGULATED AS A HAZARDOUS MAT TRANSPORTATION BY THIS AGENCY.				
ADN (EUROPEAN AGREEMENT CONCERNING OF DANGEROUS GOODS BY INLAND WATER NOT REGULATED AS A HAZARDOUS MAT TRANSPORTATION BY THIS AGENCY.	(WAYS)			
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code				
SECTION 15: Regulatory information				
15.1 Safety, health and environmental regulations/ National legislation	legislation specific for the substance or mixture			
Commission Regulation (EU) 2015/830 of 28 Ma the European Parliament and of the Council on th Restriction of Chemicals (REACH)	y 2015 amending Regulation (EC) No 1907/2006 of ne Registration, Evaluation, Authorisation and			
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larlex® HHM TR-144-C28	SAFETY DATA SHEE Polvethvlene
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Water contaminating class	nwg not water endangering
5.2	
	96/82/EC Update: 2003 Directive 96/82/EC does not apply
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL Australia AICS New Zealand NZIoC Japan ENCS Korea KECI	 This mixture contains only ingredients which have been registered according to Regulation (EU) No. 1907/2006 (REACH). Not 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 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
Philippines PICCS China IECSC Taiwan TCSI	 themselves notified the substance. 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
ECTION 16: Other information	
Fi	ealth Hazard: 0 irre Hazard: 1 eactivity Hazard: 0
Further information	
Significant changes since the last v previous versions.	version are highlighted in the margin. This version replaces all
The information in this SDS pertain	is only to the product as shipped.
information and belief at the date o guidance for safe handling, use, pr not to be considered a warranty or	afety Data Sheet is correct to the best of our knowledge, of its publication. The information given is designed only as a rocessing, storage, transportation, disposal and release and is quality specification. The information relates only to the any not be valid for such material used in combination with any unless specified in the text.
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ł	Key or legend to abbreviations and a	cronyms use	d in the safety data sheet
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	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%		