

Marlex® 4100T Polyethylene

Version 1.4

Revision Date 2019-10-08

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 information

Product Name	:	Marlex® 4100T Polyethylene
Material	:	1040242, 1040245, 1042298, 1044267, 1044268, 1044269,
		1042297, 1042296, 1042295, 1042294, 1044270, 1044266

EC-No.Registration number

Chemical name	CAS-No. EC-No. Index No.	Legal Entity Registration number
Ethylene	74-85-1 200-815-3 601-010-00-3	Chevron Phillips Chemical Company LP 01-2119462827-27-0004

1.3

Details of the supplier	of the safety data sheet
Company	 Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
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
1.4 Emergency telephone	:
Health : 866.442.9628 (North	America)
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Transport: CHEMTREC 800.424.93 Asia: CHEMWATCH (+6 EUROPE: BIG +32.14.58	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)						
South America SOS-Cot	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 E-mail address Website	: Product Safe : SDS@CPCh : www.CPChe	nem.com					
MEDICAL APPLICATION C permanent implantation in the fluids or tissues.							
Do not use this material in n human body or contact with directly from Chevron Phillip expressly acknowledges the	internal body fluid os Chemical Comp	s or tissues unless the mate any LP or its legal affiliates	erial has been provided				
Chevron Phillips Chemical C express warranty or implied in the human body or in con	warranty concerni	ing the suitability of this mat					
SECTION 2: Hazards identifica	tion						
REGULATION (EC) No 127 Not a hazardous substance 2.2 Labeling (REGULATION (E	 Classification of the substance or mixture REGULATION (EC) No 1272/2008 Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. Labeling (REGULATION (EC) No 1272/2008) Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. 						
SECTION 3: Composition/infor	mation on ingred	lients					
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	9002-88-4	1272/2006)	99 - 100				
Contains no hazardous ingre	edients according t	o GHS. :					
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SEC	TION	4:	First	aid	measures	
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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, 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

5.1	Flash point Autoignition temperature	:	No data available No data available
	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			

5.2

Special hazards arising from the substance or mixture

Specific hazards during fire	:	Risks of ignition followed by flame propagation or secondary
fighting		explosions can be caused by the accumulation of dust, e.g. on floors and ledges.

5.3

5.3	Advice for firefighters		
	-	:	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
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acids) depending on temperature and air availability. Incomplete combustion can also produce formaldehyde.

SE(CTION 6: Accidental release me	easures
5.1	Personal precautions, protect	ive equipment and emergency procedures
	Personal precautions :	Sweep up to prevent slipping hazard. Avoid breathing dust. Avoid dust formation.
5.2	Environmental precautions	
	Environmental precautions :	Do not contaminate surface water. Prevent product from entering drains.
5.3		
	Methods and materials for con Methods for cleaning up	ntainment 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	
	Precautions for safe handling 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.
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Conditions for safe storage, including any incompatibilities

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/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 Information on basic phys	sical and chemical properties			

Appearance Form Physical state

: Pellets : Solid

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Color Odor Odor Threshold	:	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 processing.
pН	:	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

10.1

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Reactivity	This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure.	
10.2		
Chemical stability	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.	
10.3		
Possibility of hazardous read	tions	
Conditions to avoid	: Avoid prolonged storage at elevated temperature.	
10.5 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.	
10.6 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.	
SECTION 11: Toxicological inforn	nation	
11.1 Information on toxicological	effects	
Marlex® 4100T Polyethylene Acute oral toxicity	: Presumed Not Toxic	
Marlex® 4100T Polyethylene Acute inhalation toxicity	: Presumed Not Toxic	
Marlex® 4100T Polyethylene Acute dermal toxicity	: Presumed Not Toxic	
Marlex® 4100T Polyethylene Skin irritation	: No skin irritation	
Marlex® 4100T Polyethylene Eye irritation	: No eye irritation	
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Sensitization	: Did not cause sensitization on laboratory animals.			
Marlex® 4100T Polyethylend Further information	 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. 			
SECTION 12: Ecological informa	tion			
12.1 Toxicity				
Ecotoxicity effects				
12.2				
Persistence and degradabil	ity			
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 as 12.6	ssessment			
Other adverse effects 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				
SECTION 13: Disposal consideration	ations			
13.1 Waste treatment methods	ertains only to the product as shipped.			
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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

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 TRANSPORTATION BY THIS AGENCY.

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

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

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

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

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

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

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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SECTION 15: Regulatory information

15.1

Safety, health and environmental regulations/legislation specific for the substance or mixture National legislation

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

	Water contaminating class : (Germany)	nwg not water endangering				
	15.2					
	Major Accident Hazard : Legislation					
	Notification status Europe REACH	: A substance or substances in this product is not registered or notified to be registered. Importation or manufacture of this product is still permitted provided that it does not exceed the REACH minimum threshold quantity of the non-regulated substances.				
	Switzerland CH INV United States of America (USA) TSCA Canada DSL	 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 				
	Australia AICS New Zealand NZIoC Japan ENCS Korea KECI	 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 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						
	NFPA Classification : Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0					

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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.

ŀ	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%		