

Marlex® 5104 Polyethylene

Version 1.5

Revision Date 2020-04-27

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® 5104 Polyethylene
Material	: 1042390, 1044343, 1042394, 1040347, 1042392, 1044342,
	1044344, 1040350, 1044345, 1042393, 1042391, 1044341

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)
SDS Number:10000000548	1/11

Marlex® 5104 Polyethylene

Revision Date 2020-04-27

Version 1.5

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. 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 Substance or Mixture Hazardous ingredients Chemical name CAS-No. Classification Polyethylene 9002-88-4 100 Contains		1.832.813.4984 (Internation Transport: CHEMTREC 800.424.930 Asia: CHEMWATCH (+61 EUROPE: BIG +32.14.58 Mexico CHEMTREC 01-8 South America SOS-Cote Argentina: +(54)-1159839	00 or 703.527.388 2 9186 1132) Ch 4545 (phone) or - 00-681-9531 (24 c Inside Brazil: 08	ina: 0532 8388 9090 ⊦32.14583516 (telefax)	+55.19.3467.1600	
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 <u>CAS-No.</u> <u>Classification [wt%]</u> Polyethylene 9002-88-4 9002-88-4 100 Contains no hazardous ingredients according to GHS. :		E-mail address	: SDS@CPCh	nem.com		
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Chemical nameCAS-No. EC-No. Index No.Classification (REGULATION (EC) No 1272/2008)Concentration [wt%]Polyethylene9002-88-4100Contains no hazardous ingredients according to GHS. :	Subs	stance or Mixture				
Polyethylene 9002-88-4 100 Contains no hazardous ingredients according to GHS. : 100			EC-No.	(REGULATION (EC) No		
	F	Polyethylene			100	
SDS Number:10000000548 2/11		Contains no hazardous ingredients according to GHS. :				
	SDS	Number:10000000548		2/11		

SAFETY DATA SHEET

Version 1.5

Revision Date 2020-04-27

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

	Flash point Autoignition temperature	:	No data available 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 the substance or mixture

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

5.3

5.3			
	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
SDS	S Number:100000000548		3/11

Marlex® 5104 Polyethylene

Version 1.5

Revision Date 2020-04-27

acids) depending on temperature and air availability. Incomplete combustion can also produce formaldehyde.

SEC	CTION 6: Accidental release me	easures
6.1	Personal precautions, protect	ive equipment and emergency procedures
6.2	Personal precautions :	Sweep up to prevent slipping hazard. Avoid breathing dust. Avoid dust formation.
0.2	Environmental precautions	
	Environmental precautions :	Do not contaminate surface water. Prevent product from entering drains.
6.3		
	Methods and materials for con Methods for cleaning up	
	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	
7.1	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.
7.2		
SDS	S Number:10000000548	4/11

Version 1.5

Revision Date 2020-04-27

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 chen	nical properties
9.1 Information on basic phys	ical and chemical properties

9.1

9.1		cal and chemical properties
	Appearance	
	Form Physical state	: Pellets : Solid
SD	S Number:10000000548	5/11

sion 1.5		Revision Date 2020-0
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.
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 reactiv	<i>.</i>	

10.1

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SDS Number:10000000548

Marlav@ 5404 Dalvathed	SAFETY DATA SHEE	
Marlex® 5104 Polyethyl	Revision Date 2020-04-2	
Reactivity	: This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure.	
0.2		
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	ctions	
0.4 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.	
I0.6 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 infor	mation	
11.1 Information on toxicological	effects	
Marlex® 5104 Polyethylene Acute oral toxicity	: Presumed Not Toxic	
Marlex® 5104 Polyethylene Acute inhalation toxicity	: Presumed Not Toxic	
Marlex® 5104 Polyethylene Acute dermal toxicity	: Presumed Not Toxic	
Marlex® 5104 Polyethylene Skin irritation	: No skin irritation	
Marlex® 5104 Polyethylene Eye irritation	: No eye irritation	
Marlex® 5104 Polyethylene		
SDS Number:10000000548	7/11	

Marlex® 5104 Polyethy	SAFETY DATA SHEET
Version 1.5	Revision Date 2020-04-27
Sensitization	: Did not cause sensitization on laboratory animals.
Sensilization	
Marlex® 5104 Polyethylene 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
_	
2.1 Toxicity	
Ecotoxicity effects	
2.2	
Persistence and degradability	ity
Biodegradability	: This material is not expected to be readily biodegradable.
2.3 Bioaccumulative potential Elimination information (persis	stence and degradability)
Bioaccumulation	: Does not bioaccumulate.
2.4	
Mobility in soil	
Mobility	: The product is insoluble and floats on water.
2.5 Results of PBT and vPvB as	sessment
2.6 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	
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 consideration	ations
13.1	
Waste treatment methods	ertains only to the product as shipped.
SDS Number:100000000548	8/11

Marlex® 5104 Polyethylene

Version 1.5

Revision Date 2020-04-27

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

SDS Number:10000000548

9/11

SAFETY DATA SHEET

Version 1.5

Revision Date 2020-04-27

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	
2			

15.2

Major Accident Hazard : Legislation	96/82/EC Update: 2003 Directive 96/82/EC does not apply
:	ZEU_SEVES3 Update: Not applicable
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada 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 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 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory Con the inventory, or in compliance with the inventory Inthis 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 inventoryOn the inventory, or in compliance with the inventoryOn the inventory, or in compliance with the inventory

SECTION 16: Other information

NFPA Classification	: Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0		
SDS Number:10000000548		10/11	

Revision Date 2020-04-27

Version 1.5

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.

K	ey or legend to abbreviations and a	cronyms used	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%		