

Marlex® 1412 Polyethylene

Version 1.6

Revision Date 2024-10-23

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2020/878

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

1.1

Product information

Product Name	: Marlex® 1412 Polyethylene
Material	: 1040130, 1042196, 1042195, 1042194, 1042193, 1042192,
	1042191, 1042190, 1044187, 1044190, 1040133, 1044188,
	1044186, 1044189

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
Ethylene	74-85-1 200-815-3 601-010-00-3	Chevron Phillips Chemicals International NV 01-2119462827-27-0271

1.3

Details of the supplier of the safety data sheet

	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 Responsible Party: Product Safety Group Email:sds@cpchem.com
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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 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 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week) Belgium: 070 245 245 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Cyprus: 1401 Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402 Denmark: Danish Poison Center (Giftlinien): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Finland: 0800 147 111 09 471 977 (24 hours/day) France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week) Iceland: 543 2222 (24 hours/day, 7 days/week) Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Italy: POISON CENTER MILAN - Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 66101029; POISON CENTER ROME - Policlinico "Agostino Gemelli", Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME – Ospedale Pediatrico Bambino Gesù Tel. +39 06 68593726; POISON CENTER ROME – Policlinico "Umberto I" Tel. +39 06 4997 8000; POISON CENTER FOGGIA – Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER NAPLES – Azienda Ospedaliera "Antonio Cardarelli" Tel. +39 081 7472870; POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055 7947819; POISON CENTER PAVIA - IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 24444; POISON CENTER BERGAMO - Azienda Ospedaliera "Papa Giovanni XXIII" Tel. 800 883 300; POISON CENTER VERONA - Azienda Ospedaliera Universitaria integrata Tel. 800 011 858: Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 67042473. (24 hours.) Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Lithuania: +370 (85) 2362052 Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week) Malta: +356 2395 2000 The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week) Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Portugal: CIAV phone number: +351 800 250 250 Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112 Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week) Sweden: 112 - ask for Poisons Information **Responsible Department** Product Safety and Toxicology Group

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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.

2.3

Other hazards

Results of PBT and vPvB : Non-classified vPvB substance assessment

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%]	Specific Conc. Limits, M-factors and ATEs				
Polyethylene	9002-88-4		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

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	fumes from overheating or combustion. If symptoms persis call a physician.	st,				
In case of skin contact	: If the molten material gets on skin, quickly cool in water. So immediate medical attention. Do not try to peel the solidifie material from the skin or use solvents or thinners to dissolve	ed				
In case of eye contact	: In the case of contact with eyes, rinse immediately with plei of water and seek medical advice.	nty				
If swallowed	: Do not induce vomiting without medical advice.					

4.2 Most important symptoms and effects, both acute and delayed4.3 Indication of any immediate medical attention and special treatment needed

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SEC	TION 5: Firefighting measur	es	
	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 fror Specific hazards during fire fighting	n ti :	he substance or mixture 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	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.
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SEC	CTION 6: Accidental release	me	asures
6.1	Personal precautions, prote	ecti	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 on Methods for cleaning up	cor :	• •
	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	5	
	Reference to other sections	:	For personal protection see section 8. For disposal considerations see section 13.
SEC	CTION 7: Handling and stora	ge	
7.1	Precautions for safe handli Handling	ng	
	Advice on safe handling	:	Use good housekeeping for safe handling of the product. Keep out of water sources and sewers. Spilled pellets 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	, in	ncluding any incompatibilities

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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. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, 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

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9.1	Information on basic	ysical and chemical properties	
	Appearance		
	Form Physical state	: Pellets : solid	
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Color Odor	: Opaque : Mild to no odor
Odor Threshold	: 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)
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

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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 rea	octions
Hazardous reactions	: Hazardous reactions: None known.
10.4 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.
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 infor	mation

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1.1 Information on toxicological effects				
Marlex® 1412 Polyethylene Acute oral toxicity	: Presumed Not Toxic			
Marlex® 1412 Polyethylene Acute inhalation toxicity	: Presumed Not Toxic			
Marlex® 1412 Polyethylene Acute dermal toxicity	: Presumed Not Toxic			
Marlex® 1412 Polyethylene Skin irritation	: No skin irritation			
Marlex® 1412 Polyethylene Eye irritation	: No eye irritation			
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Marlex® 1412 Polyethylene Sensitization 11.2	: Did not cause sensitization on laboratory animals.
Information on other hazard	S
Marlex® 1412 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.
Endocrine disrupting properties	:
SECTION 12: Ecological informa	tion
12.1 Toxicity Ecotoxicity effects	
-	
Toxicity to fish	: Not applicable
Toxicity to daphnia and other aquatic invertebrates	: No data available
12.2 Persistence and degradabil	ity
Biodegradability	: This material is not expected to be readily biodegradable.
12.3 Bioaccumulative potential Elimination information (persis	stence 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 Results of PBT assessment	sessment : Non-classified vPvB substance
12.6 Endocrine disrupting prope	rties
Endocrine disrupting	:
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properties

12.7

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.

12.8

Additional Information

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

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

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

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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.						
DANGEROUS GOODS (EUROPE NOT REGULATED AS A HAZA	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.						
Maritime transport in bulk accor SECTION 15: Regulatory information	-					
SECTION 15: Regulatory Information						
15.1 Safety, health and environmenta National legislation	I regulations/legislation specific for the substance or mixture					
	/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of e Council on the Registration, Evaluation, Authorisation and					
15.2						
	ZEU_SEVES3 Update: Not applicable					
Notification status						
Europe REACH	: This product is in full compliance according to REACH regulation 1907/2006/EC.					
Switzerland CH INV United States of America (USA)	 On the inventory, or in compliance with the inventory On or in compliance with the active portion of the 					
TSCA Canada DSL	 Since with the delive period of the TSCA inventory All components of this product are on the Canadian 					
	DSL					
Australia AIIC	: On the inventory, or in compliance with the inventory					
New Zealand NZIoC	: On the inventory, or in compliance with the inventory					
Japan ENCS Korea KECI	On the inventory, or in compliance with the inventoryNot in compliance with the inventory					
Philippines PICCS	: On the inventory, or in compliance with the inventory					
Taiwan TCSI	: On the inventory, or in compliance with the inventory					
China IECSC	: On the inventory, or in compliance with the inventory					
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SECTION 16: Other information

NFPA Classification	: Health Hazard: 0 Fire Hazard: 1 Reactivity 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		
AIIC	Australian Inventory of Industrial Chemicals	LOAEL	Lowest Observed Adverse Effe
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agenc
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupation 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 Concentra
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 Substar
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recov 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	TSCA	Toxic Substance Control Act

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	New Chemical Substances		
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%	ATE	Acute toxicity estimate