SDS Number:100000102268



Marlex® D174 Polyethylene

Version 3.4

Revision Date 2019-10-04

TION 1: Identification of	of the su	ibstance/mixture and of the company/undertaking
Product information		
Product Name Material	:	Marlex® D174 Polyethylene 1122526, 1122525, 1122524, 1122523, 1122522, 1122481, 1122480, 1122479, 1122478, 1122477, 1122476, 1122475, 1115590, 1115591, 1115664, 1115662, 1115663, 1115589, 1115588
Company	÷	Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
Emergency telephone:		
EUROPE: BIG +32.1 Mexico CHEMTREC	rnationa I.9300 o (+612 9 4.58454 01-800- Cotec In	l) r 703.527.3887(int'l) 186 1132) China: 0532 8388 9090 5 (phone) or +32.14583516 (telefax) 681-9531 (24 hours) iside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
Responsible Departmen E-mail address Website		Product Safety and Toxicology Group SDS@CPChem.com www.CPChem.com
		ION: Do not use this material in medical applications involving uman body or permanent contact with internal body fluids or tissues
human body or contact	with inter hillips Ch	cal applications involving brief or temporary implantation in the rnal body fluids or tissues unless the material has been provided nemical Company LP or its legal affiliates under an agreement which itemplated use.
		pany LP and its legal affiliates makes no representation, promise, ranty concerning the suitability of this material for use in implantation

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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 anticipated carcinogen
by NTP.

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Component			CAS-No.	Weigh	
Polyethylene Hexene Copoly	mer		25213-02-9	99 - 10	0
TION 4: First aid measures					
If inhaled	t	fumes f			halation of dust or If symptoms persist,
In case of skin contact	i	immedi	ate medical attention	on. Do not try	ly cool in water. Seek to peel the solidified thinners to dissolve it
In case of eye contact			ase of contact with r and seek medical		nmediately with plenty
If swallowed	:	Do not	induce vomiting wit	hout medical	advice.
TION 5: Firefighting measu	res				
Flash point	: 1	No data	a available		
Autoignition temperature	: 1	No data	available		
Suitable extinguishing media	 	Foam. fogging applicat surface create a extingu		hould be appl a surface bu water will spr se of straight e risk of a dus at are approp	ied as a spray from a rning material. The ead the burning streams that may t explosion. Use riate to local
Specific hazards during fire fighting	(explosi			ngation or secondary ulation of dust, e.g. or
Special protective equipment for fire-fighters			rsonal protective eq ng apparatus for fir		
Further information	: -	This ma	aterial will burn alth	ough it is not e	easily ignited.
Fire and explosion protection	(dispers	ed in air in sufficier	t concentratio	nerating dust; fine dus ns, and in the ntial dust explosion
Hazardous decomposition products	I	produce	e carbon monoxide	, other hydroc	e, water vapor and ma arbons and s, 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.
SECTION 9: Physical and cher	mica	I properties

Appearance	
Form Physical state Color Odor Odor Threshold	 Pellets Solid Opaque Mild to no odor No data available
Safety data	

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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 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
Relative vapor density	: Not applicable
Evaporation rate	: Not applicable

SECTION 10: Stability and reactivity

Reactivity

: This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure.

rlex® D174 Polyethy	len	
sion 3.4		- Revision Date 2019-10
Chemical stability	a	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous rea	ction	IS
Hazardous reactions	:	lazardous reactions: None known.
Conditions to avoid	: A	Avoid prolonged storage at elevated temperature.
Materials to avoid	: A	Avoid contact with strong oxidizing agents.
Thermal decomposition		ow 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	: N	No decomposition if stored and applied as directed.
TION 44. Taxia ala nia al infam		
TION 11: TOXICOLOGICAL INTOFI	matic	on
TION 11: TOXICOlOGICAL INFOR	matic	on
Marlex® D174 Polyethylene		on Presumed Not Toxic
TION 11: Toxicological inform Marlex® D174 Polyethylene Acute oral toxicity Marlex® D174 Polyethylene Acute inhalation toxicity	: 1	
Marlex® D174 Polyethylene Acute oral toxicity Marlex® D174 Polyethylene	: I : F	Presumed Not Toxic
Marlex® D174 Polyethylene Acute oral toxicity Marlex® D174 Polyethylene Acute inhalation toxicity Marlex® D174 Polyethylene	: : F :	Presumed Not Toxic Presumed Not Toxic
Marlex® D174 Polyethylene Acute oral toxicity Marlex® D174 Polyethylene Acute inhalation toxicity Marlex® D174 Polyethylene Acute dermal toxicity Marlex® D174 Polyethylene	: : F :	Presumed Not Toxic Presumed Not Toxic Presumed Not Toxic
Marlex® D174 Polyethylene Acute oral toxicity Marlex® D174 Polyethylene Acute inhalation toxicity Marlex® D174 Polyethylene Acute dermal toxicity Marlex® D174 Polyethylene Skin irritation Marlex® D174 Polyethylene	: : F : : N	Presumed Not Toxic Presumed Not Toxic Presumed Not Toxic
Marlex® D174 Polyethylene Acute oral toxicity Marlex® D174 Polyethylene Acute inhalation toxicity Marlex® D174 Polyethylene Acute dermal toxicity Marlex® D174 Polyethylene Skin irritation Marlex® D174 Polyethylene Eye irritation	: I : F : I : N : C : T tt v v n	Presumed Not Toxic Presumed Not Toxic Presumed Not Toxic No skin irritation

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can lead to pulmonary edema. Formaldehyde (an aldehyde) has been classified as a carcinogen based on animal data and limited epidemiological evidence.

ECTION 12: Ecological information	tion
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 (persis	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	: This product has no known ecotoxicological effects.
hazard Long-term (chronic) aquatic hazard	: This product has no known ecotoxicological effects.
CTION 13: Disposal considera	itions
The information in this SDS pe	ertains only to the product as shipped.
may meet the criteria of a haza other State and local regulatio	urpose or recycle if possible. This material, if it must be discarded, ardous waste as defined by US EPA under RCRA (40 CFR 261) or ns. 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).

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

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bill of lading.

TRANSPORTATION BY	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.
	IR 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 (EL	A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR
OF DANGEROUS GOODS	MENT CONCERNING THE INTERNATIONAL CARRIAGE BY INLAND WATERWAYS) A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
Transport in bulk according to	Annex II of MARPOL 73/78 and the IBC Code
SECTION 15: Regulatory inform	mation
1	
National legislation	
National legislation SARA 311/312 Hazards	: Combustible dust
	 Combustible dust This material does not contain any components with a CERCLA RQ.
SARA 311/312 Hazards CERCLA Reportable	: This material does not contain any components with a CERCLA
SARA 311/312 Hazards CERCLA Reportable Quantity SARA 302 Reportable	 This material does not contain any components with a CERCLA RQ. This material does not contain any components with a SARA

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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	product neither contains, nor was manufactured with a Class I or II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR ubpt. A, App.A + B).
This product does not contai Act Section 112 (40 CFR 61)	in any hazardous air pollutants (HAP), as defined by the U.S. Clean A).
	in any chemicals listed under the U.S. Clean Air Act Section 112(r) for on (40 CFR 68.130, Subpart F).
This product does not contai Intermediate or Final VOC's	in any chemicals listed under the U.S. Clean Air Act Section 111 SOC (40 CFR 60.489).
US State Regulations	
Pennsylvania Right To Know	v : No components are subject to the Pennsylvania Right to Know Act.
Pennsylvania Right To Know California Prop. 65 Components	: No components are subject to the Pennsylvania Right to Know
California Prop. 65 Components Notification status	 No components are subject to the Pennsylvania Right to Know Act. 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.
California Prop. 65 Components	 No components are subject to the Pennsylvania Right to Know Act. 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
California Prop. 65 Components Notification status	 No components are subject to the Pennsylvania Right to Know Act. 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. This mixture contains only ingredients which have been registered according to Regulation (EU) No. 1907/2006 (REACH). On the inventory, or in compliance with the inventory

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Australia AICS New Zealand NZIoC Japan ENCS	 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
Korea KECI	 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.
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	
	Reactivity Hazard. 0	

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.

ACGIH	American Conference of	LD50	Lethal Dose 50%
	Government Industrial Hygienists		
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effe Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
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 Concentrat
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 Substan
MAK	Germany Maximum Concentration	PRNT	Presumed Not Toxic

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	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 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%		