

Marlex® 9010C Polyethylene

Version 1.4

Revision Date 2021-09-08

TION 1: Identification of	of the substance/mixture and of the company/undertaking
Product information	
Product Name Material	 Marlex® 9010C Polyethylene 1119656, 1119655, 1119654, 1119653, 1119652, 1119637, 1119636, 1119635, 1119634, 1119633, 1119621, 1119620, 1119632, 1119611
Company	: Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
Emergency telephone:	
Asia: CHEMWATCH (EUROPE: BIG +32.14 Mexico CHEMTREC (South America SOS-0 Argentina: +(54)-1159	rnational) 4.9300 or 703.527.3887(int'l) (+612 9186 1132) China: 0532 8388 9090 4.584545 (phone) or +32.14583516 (telefax) 01-800-681-9531 (24 hours) Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 9839431
Responsible Department E-mail address Website	t : Product Safety and Toxicology Group : SDS@CPChem.com : www.CPChem.com
	N CAUTION: Do not use this material in medical applications involving in the human body or permanent contact with internal body fluids or tissues
human body or contact w	in medical applications involving brief or temporary implantation in the with internal body fluids or tissues unless the material has been provided hillips Chemical Company LP or its legal affiliates under an agreement which the contemplated use.
express warranty or impl	cal Company LP and its legal affiliates makes no representation, promise, lied warranty concerning the suitability of this material for use in implantation contact with internal body fluids or tissues.
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SECTION 2: Hazards identification

Classification	: Combustible dust
Labeling	
Signal Word	: Warning
Hazard Statements	: 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.
Potential Health Effects	
Physical Hazards	: 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.
Inhalation	 Repeated exposure to dust from this material may cause respiratory irritation. Fumes generated during thermal processing may cause irritation of the upper respiratory tract.
Skin	 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.
Eyes	 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	: Ingestion of this product is not a likely route of exposure.
Carcinogenicity:	
IARC	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.	١	Neight %
Polyethylene Hexene Copoly	/me	r	25213-02-9		9 - 100
TION 4: First aid measures					
If inhaled	:	fumes f			ental inhalation of dust or stion. If symptoms persist,
In case of skin contact	:	immedi	ate medical attention	on. Do r	, quickly cool in water. Seel not try to peel the solidified ents or thinners to dissolve it
In case of eye contact	:		ase of contact with r and seek medical		nse immediately with plenty
If swallowed	:	Do not	induce vomiting wit	hout me	edical advice.
TION 5: Firefighting measu	res				
Flash point	:	No data	a available		
Autoignition temperature	:	No data	available		
Suitable extinguishing media	:	Foam. fogging applica surface create a extingu	If possible, water s nozzle since this is tion of high velocity layer. Avoid the u	hould be a surfa water v se of str e risk of at are a	
Specific hazards during fire fighting	:	explosi			propagation or secondary accumulation of dust, e.g. or
Special protective equipment for fire-fighters	:		rsonal protective ec ng apparatus for fire		t. Wear self-contained if necessary.
Further information	:	This ma	aterial will burn alth	ough it i	s not easily ignited.
Fire and explosion protection	:	dispers	ed in air in sufficier ce of an ignition sou	t conce	oid generating dust; fine dus ntrations, and in the potential dust explosion
Hazardous decomposition products	:	produce	e carbon monoxide	, other h	dioxide, water vapor and ma lydrocarbons and etones, 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 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

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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, 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

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

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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

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.
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Chemical stability	 This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous rea	ctions
Conditions to avoid	: Avoid prolonged storage at elevated temperature.
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.
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.
TION 11: Toxicological infor	nation
Marlex® 9010C Polyethylene Acute oral toxicity	: Presumed Not Toxic
Marlex® 9010C Polyethylene Acute inhalation toxicity	
Marlex® 9010C Polyethylene Acute dermal toxicity	: Presumed Not Toxic
Marlex® 9010C Polyethylene Skin irritation	: No skin irritation
Marlex® 9010C Polyethylene Eye irritation	: No eye irritation
Marlex® 9010C Polyethylene Sensitization	: Did not cause sensitization on laboratory animals.
Marlex® 9010C 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.
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ECTION 12: Ecological information							
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	stence and degradability)						
Bioaccumulation	: Does not bioaccumulate.						
Mobility	: The product is insoluble and floats on water.						
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	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 considera	ations						
The information in this SDS p	ertains only to the product as shipped.						
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 informat	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 bill of lading.							
US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)							
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NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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Maritime transport in bulk according to IMO instruments				
SECTION 15: Regulatory infor	mation			
SECTION 15: Regulatory inform	mation			
SECTION 15: Regulatory inform National legislation SARA 311/312 Hazards CERCLA Reportable	mation : Combustible dust : This material does not contain any components with a CERCLA			
SECTION 15: Regulatory inform National legislation SARA 311/312 Hazards CERCLA Reportable Quantity SARA 302 Reportable	mation Combustible dust Combustible dust This material does not contain any components with a CERCLA RQ. This material does not contain any components with a SARA			
SECTION 15: Regulatory inform National legislation SARA 311/312 Hazards CERCLA Reportable Quantity SARA 302 Reportable Quantity SARA 302 Threshold	 mation Combustible dust This material does not contain any components with a CERCLA RQ. This material does not contain any components with a SARA 302 RQ. No chemicals in this material are subject to the reporting 			
SECTION 15: Regulatory inform National legislation SARA 311/312 Hazards CERCLA Reportable Quantity SARA 302 Reportable Quantity SARA 302 Threshold Planning Quantity SARA 304 Reportable	 mation Combustible dust This material does not contain any components with a CERCLA RQ. This material does not contain any components with a SARA 302 RQ. No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. This material does not contain any components with a section 			

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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 II	duct neither contains, nor was manufactured with a Class I or ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR pt. A, App.A + B).
This product does not contain Act Section 112 (40 CFR 61).	any hazardous air pollutants (HAP), as defined by the U.S. Clean Air
This product does not contain a Accidental Release Prevention	any chemicals listed under the U.S. Clean Air Act Section 112(r) for (40 CFR 68.130, Subpart F).
This product does not contain a Intermediate or Final VOC's (4	any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI 0 CFR 60.489).
US State Regulations	
Pennsylvania Right To Know	: No components are subject to the Pennsylvania Right to Know Act.
New Jersey Right To Know	: No components are subject to the New Jersey Right to Know Act.
California Prop. 65 Components	: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.
Notification status Europe REACH	: This mixture contains only ingredients which have been registered according to Regulation (EU) No. 1907/2006
Switzerland CH INV United States of America (USA TSCA	TSCA inventory
Canada DSL	: All components of this product are on the Canadian
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Australia Al(New Zealand Japan ENCS Korea KECI	d NZIoC S	: On the : On the : A subs notifie by CP Import permit thems amour	e inventory, or stance(s) in thi d to be registe Chem accordi ation or manu ted provided t elves notified nt does not exe	in compliance with the inventory in compliance with the inventory in compliance with the inventory is product was not registered, ered, or exempted from registration ng to K-REACH regulations. facture of this product is still he Korean Importer of Record has the substance or the exported ceed the minimum threshold egistered substance(s).
Philippines I	PICCS	· On the	e inventory or	in compliance with the inventory
China IECS				in compliance with the inventory
Taiwan TCS	SI	: On the	e inventory, or	in compliance with the inventory
TION 16: Oti	her information			
NFPA Class	ification · H	ealth Hazard:	0	
		ire Hazard: 1		
	R	eactivity Haza	ard: 0	
Further info	rmation			
Significant cl	hanges since the last	version are hi	ghlighted in th	e margin. This version replaces all
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Marlex® 9010C Polyethylene

Version 1.4

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	Chemicals Association		
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%		