

# Marlex® DV 109P-C06 Polyethylene

Version 3.2

Revision Date 2019-10-18

ECTION 1: Identification of	the su	bstance/mixture and of the company/undertaking
Draduct information		
Product information Product Name Material		Marlex® DV 109P-C06 Polyethylene 1036381
Company	:	Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
Emergency telephone:		
EUROPE: BIG +32.14 Mexico CHEMTREC 0	national 9300 or +612 91 .58454 01-800-6 Cotec In:	) r 703.527.3887(int'l) 186 1132) China: 0532 8388 9090 5 (phone) or +32.14583516 (telefax) 681-9531 (24 hours) side Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
Responsible Department 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 iman body or permanent contact with internal body fluids or tissues
human body or contact w	ith inter illips Ch	al applications involving brief or temporary implantation in the nal body fluids or tissues unless the material has been provided emical Company LP or its legal affiliates under an agreement which templated use.
express warranty or impli	ed warr	bany LP and its legal affiliates makes no representation, promise, anty concerning the suitability of this material for use in implantation with internal body fluids or tissues.
CTION 2: Hazards identifi	cation	
Classification of the sul	ostance	e or mixture
S Number:10000000928		1/12

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	sified in accordance with the hazard communication standard 29 CFR bels contain all the information as required by the standard.
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	<ul> <li>Repeated exposure to dust from this material may cause respiratory irritation.</li> <li>Fumes generated during thermal processing may cause irritation of the upper respiratory tract.</li> </ul>
Skin	<ul> <li>Contact with the skin is not expected to cause prolonged or significant irritation.</li> <li>Contact with the skin is not expected to cause an allergic response.</li> <li>If this material is heated, thermal burns may result from contact.</li> <li>Thermal burns may include pain or feeling of heat, discolorations, swelling, and blistering.</li> </ul>
Eyes	<ul> <li>Contact with the eyes may cause irritation due to the abrasive action.</li> <li>Not expected to cause prolonged or significant eye irritation.</li> <li>Thermal burns may result if heated material contacts eye.</li> </ul>
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
NTP	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.
SECTION 3: Composition/info	rmation on ingredients
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SAFETY DATA SHEET

Component	CAS-No.	Weight %
Polyethylene Hexene Copolymer	25213-02-9	99 - 100

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.
CTION 5: Firefighting measu	res	
Flash point	:	No data available
Autoignition temperature	:	No data available
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.
Specific hazards during fire fighting	:	Risks of ignition followed by flame propagation or secondary explosions can be caused by the accumulation of dust, e.g. on floors and ledges.
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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#### 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).
<b>SECTION 7: Handling and stora</b>	age	
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

epidemiological evidence, formaldehyde has been listed as a carcinogen. Following all recommendations within this SDS should minimize exposure to thermal processing emissions.

and acrolein. Based on animal data and limited

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 : Keep in a dry place. Keep in a well-ventilated place. areas and containers

Advice on common storage : Do not store together with oxidizing and self-igniting products.

#### **SECTION 8: Exposure controls/personal protection**

#### Ingredients with workplace control parameters

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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 chemical properties**

Information on basic physical and chemical prop	erties
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#### Appearance

Form Physical state	: Pellets : Solid	
Color	: Opaque	
Odor	: Mild to no odor	
Odor Threshold	: No data available	
Safety data		
Flash point	: No data available	
	<b>.</b>	
Lower explosion limit	: Not applicable	
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Version 3.2       Revision Date 2019-         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         pH       : Not applicable         Melting point/range       : 90 - 140 °C (194 - 284 °F)         Freezing point       Not applicable         Initial boiling point and boiling range       : Not applicable         Relative density       : 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	
Autoignition temperature       : No data available         Thermal decomposition       : Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing         pH       : 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	J.
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acids and ketones can be formed during thermal processing         pH       : 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	j.
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	
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	
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	
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	
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	
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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- : No data available octanol/water	
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	
<b>Reactivity</b> : This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure.	

**Chemical stability** : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Possibility of hazardous reactions	
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Hazardous reactions	: Hazardous reactions: See 'Conditions to Avoid' and/or "Materials to Avoid" in this section.
	Further information: No hazards to be specially mentioned.
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.
CTION 11: Toxicological infor	mation
Marlex® DV 109P-C06 Polye Acute oral toxicity	
Marlex® DV 109P-C06 Polye Acute inhalation toxicity	
Marlex® DV 109P-C06 Polye Acute dermal toxicity	thylene : Presumed Not Toxic
	Presumed Not Toxic
Acute dermal toxicity Marlex® DV 109P-C06 Polye	<ul> <li>Presumed Not Toxic</li> <li>thylene <ul> <li>No skin irritation</li> </ul> </li> </ul>
Acute dermal toxicity Marlex® DV 109P-C06 Polye Skin irritation Marlex® DV 109P-C06 Polye	<ul> <li>Presumed Not Toxic</li> <li>thylene <ul> <li>No skin irritation</li> </ul> </li> <li>thylene <ul> <li>No eye irritation</li> </ul> </li> </ul>
Acute dermal toxicity Marlex® DV 109P-C06 Polye Skin irritation Marlex® DV 109P-C06 Polye Eye irritation Marlex® DV 109P-C06 Polye	<ul> <li>Presumed Not Toxic</li> <li>thylene <ul> <li>No skin irritation</li> </ul> </li> <li>thylene <ul> <li>No eye irritation</li> </ul> </li> <li>thylene <ul> <li>Did not cause sensitization on laboratory animals.</li> </ul> </li> </ul>

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#### SECTION 12: Ecological information

#### Ecotoxicity effects

Biodegradability: This material is not expected to be readily biodegradable.Elimination information (persistence and degradability)Bioaccumulation: Does not bioaccumulate.Mobility: The product is insoluble and floats on water.Additional ecological<br/>information: This material is not expected to be harmful to aquatic<br/>organisms., Fish or birds may eat pellets which may obstruct<br/>their digestive tracts.

#### Ecotoxicology Assessment

#### **SECTION 13: Disposal considerations**

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**

# 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)

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NOT REGULATED AS A TRANSPORTATION BY	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	HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR
	MENT CONCERNING THE INTERNATIONAL CARRIAGE
	BY INLAND WATERWAYS) A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
CTION 15: Regulatory inform	nation
National legislation	
National legislation SARA 311/312 Hazards	: Combustible dust
SARA 311/312 Hazards	: Combustible dust
SARA 311/312 Hazards	
SARA 311/312 Hazards EPCRA - EMERGENCY PL/ CERCLA Reportable	ANNING COMMUNITY RIGHT - TO – KNOW : This material does not contain any components with a CERCLA
SARA 311/312 Hazards EPCRA - EMERGENCY PLA CERCLA Reportable Quantity SARA 302 Reportable	<ul> <li>ANNING COMMUNITY RIGHT - TO – KNOW</li> <li>This material does not contain any components with a CERCLA RQ.</li> <li>This material does not contain any components with a SARA</li> </ul>
SARA 311/312 Hazards EPCRA - EMERGENCY PLA CERCLA Reportable Quantity SARA 302 Reportable Quantity SARA 302 Threshold	<ul> <li>ANNING COMMUNITY RIGHT - TO – KNOW</li> <li>This material does not contain any components with a CERCLA RQ.</li> <li>This material does not contain any components with a SARA 302 RQ.</li> <li>No chemicals in this material are subject to the reporting</li> </ul>
SARA 311/312 Hazards EPCRA - EMERGENCY PLA CERCLA Reportable Quantity SARA 302 Reportable Quantity SARA 302 Threshold Planning Quantity SARA 304 Reportable	<ul> <li>ANNING COMMUNITY RIGHT - TO – KNOW</li> <li>This material does not contain any components with a CERCLA RQ.</li> <li>This material does not contain any components with a SARA 302 RQ.</li> <li>No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.</li> <li>This material does not contain any components with a section</li> </ul>

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Clean Air Act					
Potential Class II					
This product does not contain a 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 (40	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 Switzerland CH INV United States of America (USA TSCA Canada DSL Australia AICS New Zealand NZIoC Japan ENCS Korea KECI	<ul> <li>TSCA inventory</li> <li>All components of this product are on the Canadian DSL</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>All substances in this product were registered, notified to be registered, or exempted from registration by CPChem through an Only Representative according to K-REACH regulations. Importation of this product is permitted if the Korean Importer of Record was</li> </ul>				
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			SAFETY DATA SH	
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			n's notifications or if the Importer on the internation of the substances.	
Philippines I China IECS Taiwan TCS	C : On the	inventory, or in compliance with the inventory inventory, or in compliance with the inventory inventory, or in compliance with the inventory		
TION 16: Otl	her information			
NFPA Class	ification : Health Hazard: Fire Hazard: 1 Reactivity Haza			
			0 0	
Further info	rmation		$\sim$	
	ion in this SDS pertains only to the		• •	
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# Marlex® DV 109P-C06 Polyethylene

Version 3.2

Revision Date 2019-10-18

	on Cancer		
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%		

SDS Number:10000000928