

Marlex® 9708S Polyethylene

Version 3.2

Revision Date 2019-10-18

ECTION 1: Identification of the su	Ibstance/mixture and of the company/undertaking
Product information Product Name : Material :	Marlex® 9708S Polyethylene 1106456, 1106455, 1106454, 1106453, 1106452, 1106451, 1106450
Company :	Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
Emergency telephone:	
EUROPE: BIG +32.14.58454 Mexico CHEMTREC 01-800-	l) r 703.527.3887(int'l) 186 1132) China: 0532 8388 9090 •5 (phone) or +32.14583516 (telefax) 681-9531 (24 hours) nside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
E-mail address :	Product Safety and Toxicology Group SDS@CPChem.com www.CPChem.com
	TON: 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	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 ntemplated use.
express warranty or implied warr	pany LP and its legal affiliates makes no representation, promise, ranty concerning the suitability of this material for use in implantation 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.
NTP	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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TION 3: Composition/inform			5		
Component			CAS-No.	Weight %	
Polyethylene Hexene Copoly	mer		25213-02-9	99 - 100	
TION 4: First aid measures					
If inhaled	f	umes f		of accidental inhala combustion. If sy	
In case of skin contact	i	mmedi	ate medical attenti	on skin, quickly co on. Do not try to pe se solvents or thin	eel the solidified
In case of eye contact			ase of contact with r and seek medica	eyes, rinse immec advice.	liately with plenty
If swallowed	: 1	Do not	induce vomiting wi	hout medical advic	æ.
TION 5: Firefighting measu	res				
Flash point	: 1	No data	a available		
Autoignition temperature	: 1	No data	a available		
Suitable extinguishing media	 	Foam. Togging applica surface create a extingu	If possible, water s nozzle since this i tion of high velocity layer. Avoid the u a dust cloud and th ishing measures th	hemical. Carbon d hould be applied a s a surface burning water will spread se of straight strea e risk of a dust exp at are appropriate rrounding environm	s a spray from a material. The the burning ms that may losion. Use to local
Specific hazards during fire fighting	(explosi		by flame propagatic by the accumulatic	
Special protective equipment for fire-fighters				quipment. Wear se efighting if necessa	
Further information	: -	This ma	aterial will burn alth	ough it is not easily	/ ignited.
Fire and explosion protection	c I	dispers	ed in air in sufficier ce of an ignition so	urn. Avoid genera at concentrations, a urce is a potential o	ind in the
Hazardous decomposition products	F	oroduce		carbon dioxide, wa , other hydrocarbo ducts (ketones, alc	ns and

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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

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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, 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	nica	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.
Molecular weight	: Not applicable
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-	: 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 react	ivity
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 read	tions		
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.		
SECTION 11: Toxicological inform	nation		
Marlex® 9708S Polyethylene Acute oral toxicity	: Presumed Not Toxic		
Marlex® 9708S Polyethylene Acute inhalation toxicity	: Presumed Not Toxic		

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Acute dermal toxicity	:	Presumed Not Toxic

Marlex® 9708S Polyethylene		
Skin irritation	:	No skin irritation

Marlex® 9708S Polyethylene Eye irritation : No eye irritation

Marlex® 9708S Polyethylene			
Sensitization	Did not ca	use sensitization on labo	ratory animals.

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
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limited epidemiological evidence.

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 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 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)

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NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE)) NOT REQULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY. RID (REGULATION S CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE)) NOT REQULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY. ADD (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 SECTION 15: Regulatory information National legislation SARA 311/312 Hazards : Combustible dust CERCLA Reportable : This material does not contain any components with a CERCLA RQ. SARA 302 Reportable : This material does not contain any components with a SARA 302 RQ. SARA 302 Threshold : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 304 Reportable : This material does not contain any components with a section 304 EHS RQ. SARA 304 Reportable : This material does not contain any components with a section 304 EHS RQ.	IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.				
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SDS Number:100000100288 9/12	SARA 311/312 Hazards CERCLA Reportable Quantity SARA 302 Reportable Quantity SARA 302 Threshold	 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 			
SDS Number:100000100288 9/12	SARA 311/312 Hazards CERCLA Reportable Quantity SARA 302 Reportable Quantity SARA 302 Threshold Planning Quantity SARA 304 Reportable	 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 w known CAS numbers that exceed the threshold (De Minimis reporting levels established by SARA Title III, Section 313. 	rith	
Clean Air Act			
Potential Class	This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).		
This product does not contai Act Section 112 (40 CFR 61)	n any hazardous air pollutants (HAP), as defined by the U.S. Clo	ean Air	
	n any chemicals listed under the U.S. Clean Air Act Section 112 on (40 CFR 68.130, Subpart F).	(r) for	
This product does not contai Intermediate or Final VOC's	any chemicals listed under the U.S. Clean Air Act Section 111 40 CFR 60.489).	SOCM	
JS State Regulations			
Pennsylvania Right To Know	: No components are subject to the Pennsylvania Right to Kr Act.	างพ	
California Prop. 65 Components	: This product, as shipped, does not contain any carcinogens reproductive toxins presently known by the State of Califorr cause cancer or reproductive toxicity at a level of exposure subject to the requirements of California Proposition 65.		
Notification status Europe REACH Switzerland CH INV United States of America (US TSCA Canada DSL Australia AICS New Zealand NZIoC New Zealand NZIoC Japan ENCS Korea KECI	 TSCA inventory All components of this product are on the Canadian DSL On the inventory, or in compliance with the inventor On the inventory, or in compliance with the inventor On the inventory, or in compliance with the inventor On the inventory, or in compliance with the inventor On the inventory, or in compliance with the inventor On the inventory, or in compliance with the inventor A substance(s) in this product was not registered, notified to be registered, or exempted from registration 	n ny vry vry vry vry	
	by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record		

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themselves notified the substance.

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
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SECTION 16: Other information

NFPA Classification : Health Hazard: 0 Fire Hazard: 1 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 Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	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 Occupatio 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 Substan
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recov
>=	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
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IECSC	Inventory of Existing Chemical	TWA	Time Weighted Average
	Substances in China		. .
ENCS	Japan, Inventory of Existing and	TSCA	Toxic Substance Control Act
	New Chemical Substances		
KECI	Korea, Existing Chemical	UVCB	Unknown or Variable Composition,
	Inventory		Complex Reaction Products, and
			Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials
			Information System
LC50	Lethal Concentration 50%		

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