

MarFlex® 5563 Polyethylene

Version 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
Product information		
Product Name Material	 MarFlex® 5563 Polyethylene 1045794, 1045793, 1045792, 1045791, 1045795, 1042513, 1044446, 1044447, 1040497, 1042512, 1042514, 1042515, 1042516, 1044448, 1044449, 1044450, 1040494 	
Company	: Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380	
Emergency telephone	:	
Asia: +800 CHEMCA EUROPE: BIG +32.1		
Responsible Departmer E-mail address Website	 Product Safety and Toxicology Group SDS@CPChem.com www.CPChem.com 	
	ON 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	I 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 s the contemplated use.	
express warranty or imp	cal Company LP and its legal affiliates makes no representation, promise, blied warranty concerning the suitability of this material for use in implantation contact with internal body fluids or tissues.	
SECTION 2: Hazards identi	fication	
Classification of the substa	ance or mixture	
This product has been classi	fied in accordance with the hazard communication standard 29 CFR els contain all the information as required by the standard.	
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Warning	
· · · · · · · · · · · · · · · · · · ·	state: Solid Color: Opaque Odor: Mild to no odor
OSHA Hazards	: Combustible dust
Classification	
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.
ACGIH	No ingredient of this product present at levels greater than or

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	by ACGIH.		
TION 3: Composition/inforr	nation on ingredients		
Component Polyethylene	CAS-No. 9002-88-4	Weight % 99 - 100	
TION 4: First aid measures			
If inhaled		of accidental inhalation of dust or r combustion. If symptoms persist,	
In case of skin contact	immediate medical attention	on skin, quickly cool in water. Seek on. Do not try to peel the solidified use solvents or thinners to dissolve it.	
In case of eye contact	: In the case of contact with of water and seek medical	eyes, rinse immediately with plenty ladvice.	
If swallowed	: Do not induce vomiting without medical advice.		
TION 5: Firefighting measu	res		
Flash point	: No data available		
Autoignition temperature	: No data available		
Suitable extinguishing media	Foam. If possible, water s fogging nozzle since this is application of high velocity surface layer. Avoid the u		
Specific hazards during fire fighting		by flame propagation or secondary by the accumulation of dust, e.g. on	
Special protective equipment for fire-fighters	: Use personal protective en breathing apparatus for fir	quipment. Wear self-contained efighting if necessary.	
Further information	: This material will burn alth	ough it is not easily ignited.	
	dispersed in air in sufficier	urn. Avoid generating dust; fine dust nt concentrations, and in the urce is a potential dust explosion	
Fire and explosion protection	dispersed in air in sufficier	nt concentrations, and in the	

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Hazardous decomposition products	 Normal combustion forms carbon dioxide, water vapor and ma 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.
TION 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).
TION 7: Handling and stora	ge
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 dus 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.

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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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Ingredients	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

Vapor and Formaldehyde. Use a positive pressure, a supplying respirator if there is potential for uncontrolle release, exposure levels are not known, or other circu where air-purifying respirators may not provide adequ protection. Dust safety masks are recommended whe dust concentration is excessive.	mstances ate	
Eye protection : Use of safety glasses with side shields for solid handli good industrial practice. If this material is heated, we chemical goggles or safety glasses with side shields of shield. If there is potential for dust, use chemical gogg	r a face	
Skin and body protection : At ambient temperatures use of clean and protective of good industrial practice. If the material is heated or m wear thermally insulated, heat-resistant gloves that ar withstand the temperature of the molten product. If the material is heated, wear insulated clothing to prevent contact if engineering controls or work practices are n adequate.	olten, e able to s skin	
SECTION 9: Physical and chemical properties		

Information on basic physical and chemical properties

Appearance	
Form Physical state Color Odor	 Pellets Solid Opaque Mild to no odor
Odor Threshold MSDS Number:10000000557	: No data available 5/12
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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 range		
Vapor pressure		Not applicable
Relative density	:	Not applicable
Density	:	0.91 - 0.97 g/cm3
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 reactiv	/ity	,
Reactivity	:	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.
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Possibility of hazardous reactions			
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		
MarFlex® 5563 Polyethylene Acute oral toxicity	: Presumed Not Toxic		
MarFlex® 5563 Polyethylene Acute inhalation toxicity	: Presumed Not Toxic		
MarFlex® 5563 Polyethylene Acute dermal toxicity	: Presumed Not Toxic		
MarFlex® 5563 Polyethylene Skin irritation	: No skin irritation		
MarFlex® 5563 Polyethylene Eye irritation	: No eye irritation		
MarFlex® 5563 Polyethylene Sensitization	: Did not cause sensitization on laboratory animals.		
MarFlex® 5563 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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SECTION 12: Ecological information

Ecotoxicity effects

Elimination information (persistence and degradability)

Bioaccumulation	: Does not bioaccumulate.
Mobility	: The product is insoluble and floats on water.
Biodegradability	: This material is not expected to be readily biodegradable.
Ecotoxicology Assessment	
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.

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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ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE)) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.				
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.				
nsport in bulk according to	Annex II of MARPOL 73/78 and the IBC Code	_		
National legislation				
SARA 311/312 Hazards	: No SARA Hazards			
CERCLA Reportable Quantity	: This material does not contain any components with a CERC RQ.	LA		
SARA 302 Reportable Quantity	: This material does not contain any components with a SARA 302 RQ.			
SARA 302 Threshold	: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.			
Planning Quantity	reporting requirements of SARA Title III, Section 502.			
SARA 304 Reportable Quantity	 This material does not contain any components with a section 304 EHS RQ. 	ו		
SARA 304 Reportable	: This material does not contain any components with a sectior	ו		
SARA 304 Reportable Quantity	 This material does not contain any components with a sectior 304 EHS RQ. SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA 	ו		

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Ozone-Depletion : This produ Potential Class II O	uct neither contains, nor was manufactured with a Class I or DS as defined by the U.S. Clean Air Act Section 602 (40 CFR . A, App.A + B).
	ny hazardous air pollutants (HAP), as defined by the U.S. Clean Air
This product does not contain ar Accidental Release Prevention (ny chemicals listed under the U.S. Clean Air Act Section 112(r) for 40 CFR 68.130, Subpart F).
This product does not contain ar Intermediate or Final VOC's (40	ny chemicals listed under the U.S. Clean Air Act Section 111 SOCMI 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 : Ingredients	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 United States of America TSCA Canada DSL Australia AICS New Zealand NZIoC Japan ENCS Korea KECI Philippines PICCS China IECSC	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 Classific	cation : Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0					
Further inform Legacy SDS No						
0	Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.					
The information	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.						
Key	Key or legend to abbreviations and acronyms used in the safety data sheet					
ACGIH	American Conference of LD50 Lethal Dose 50%					

AICS DSL NDSL	Government Industrial Hygienists Australia, Inventory of Chemical Substances Canada, Domestic Substances	LOAEL	Lowest Observed Adverse Effe
	Canada, Domestic Substances		Level
NDSL	List	NFPA	National Fire Protection Agenc
	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 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	TWA	Time Weighted Average

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	Substances in China		
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%		

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