SAFETY DATA SHEET



Marlex® 5628 Polyethylene

Version 3.3

Revision Date 2019-10-09

TION 1: Identification of th	e substance/mixture and of the company/undertaking
Product information	
Product Name Material	 Marlex® 5628 Polyethylene 1121767, 1070233, 1070235, 1070234, 1070221, 1070232
Company	: Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
Emergency telephone:	
EUROPE: BIG +32.14.58 Mexico CHEMTREC 01-8	ional) 00 or 703.527.3887(int'l) 12 9186 1132) China: 0532 8388 9090 34545 (phone) or +32.14583516 (telefax) 800-681-9531 (24 hours) ec Inside 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
	AUTION: Do not use this material in medical applications involving ne human body or permanent contact with internal body fluids or tissues
human body or contact with	nedical applications involving brief or temporary implantation in the internal body fluids or tissues unless the material has been provided os Chemical Company LP or its legal affiliates under an agreement which e contemplated use.
express warranty or implied	Company LP and its legal affiliates makes no representation, promise, warranty concerning the suitability of this material for use in implantation tact with internal body fluids or tissues.
TION 2: Hazards identifica	tion
Classification of the subst	tance or mixture
Number:100000000562	1/12

arlex® 5628 Polye	tnylene
sion 3.3	Revision Date 2019-10-
	assified in accordance with the hazard communication standard 29 CFR I labels 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	 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
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.
CTION 3: Composition/ir	formation on ingredients
S Number:100000000562	2/12

SDS Number:10000000562

SAFETY DATA SHEET

Version 3.3

Revision Date 2019-10-09

Component	CAS-No.	Weight %
Polyethylene	9002-88-4	99 - 100

SECTION 4: First aid measures 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 the case of contact with eyes, rinse immediately with plenty In case of eye contact of water and seek medical advice. If swallowed : Do not induce vomiting without medical advice. SECTION 5: Firefighting measures Flash point : No data available Autoignition temperature : No data available Suitable extinguishing : Water. Water mist. Dry chemical. Carbon dioxide (CO2). media Foam. If possible, water should be applied as a sprav 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 Risks of ignition followed by flame propagation or secondary explosions can be caused by the accumulation of dust, e.g. on fighting floors and ledges. Special protective : Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary. equipment for fire-fighters Further information : This material will burn although it is not easily ignited. : Treat as a solid that can burn. Avoid generating dust; fine dust Fire and explosion protection dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Hazardous decomposition Normal combustion forms carbon dioxide, water vapor and may products 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.

3/12

Revision Date 2019-10-09

Version 3.3

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 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.
TION 8: Exposure controls/	/per	sonal protection

Ingredients with workplace control parameters

SDS Number:10000000562

SAFETY DATA SHEET

Version 3.3

Revision Date 2019-10-09

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 properties

Appearance

Form Physical state Color Odor Odor Threshold	 Pellets Solid Opaque Mild to no odor No data available 	
Safety data		
Flash point	: No data available	
Lower explosion limit	: Not applicable	
SDS Number:100000000562		5/12
Safety data Flash point Lower explosion limit		5/12

SAFETY DATA SHEET

Marlex® 5628 Polyethylene

Varaian	22
Version	ა.ა

Revision Date 2019-10-09

ersion 3.3	Revision Date 2019-10-09
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)
Melting point/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
CTION 10: Stability and reactive	vity
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.
Possibility of hazardous read	ctions
DS Number:100000000562	6/12

larlex® 5628 Polyethyl	SAFETY DATA SHEE
ersion 3.3	Revision Date 2019-10-0
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.
ECTION 11: Toxicological inform	nation
Marlex® 5628 Polyethylene Acute oral toxicity	: Presumed Not Toxic
Marlex® 5628 Polyethylene Acute inhalation toxicity	: Presumed Not Toxic
Marlex® 5628 Polyethylene Acute dermal toxicity	: Presumed Not Toxic
Marlex® 5628 Polyethylene Skin irritation	: No skin irritation
Marlex® 5628 Polyethylene Eye irritation	: No eye irritation
Marlex® 5628 Polyethylene Sensitization	: Did not cause sensitization on laboratory animals.
Marlex® 5628 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.
ECTION 12: Ecological informat	ion
DS Number:100000000562	7/12

SAFETY DATA SHEET

Version 3.3

Revision Date 2019-10-09

Ecotoxicity effects

Biodegradability	: This material is not expected to be readily biodegradable.	
Elimination information (persis	ence 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

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)

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

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

SDS Number:10000000562

8/12

SAFETY	ΠΑΤΑ	SHEET
SAFEII	DATA	SHEET

Marlex® 5628 Polyethylene Version 3.3 Revision Date 2019-10-09 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. 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 Quantity RQ. SARA 302 Reportable : This material does not contain any components with a SARA 302 RQ. Quantity SARA 302 Threshold : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. Planning Quantity SARA 304 Reportable : This material does not contain any components with a section Quantity 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** SDS Number:10000000562 9/12

rlex® 5628 Polyethy	lene
sion 3.3	Revision Date 2019-10-
Potential Class I	oduct neither contains, nor was manufactured with a Class I or I ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR opt. 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 A
	any chemicals listed under the U.S. Clean Air Act Section 112(r) for n (40 CFR 68.130, Subpart F).
This product does not contain Intermediate or Final VOC's (any chemicals listed under the U.S. Clean Air Act Section 111 SOC 40 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 (US TSCA Canada DSL	TSCA inventory All components of this product are on the Canadian DSL
Australia AICS New Zealand NZIoC Japan ENCS Korea KECI	 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 A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance.
Philippines PICCS China IECSC	On the inventory, or in compliance with the inventoryOn the inventory, or in compliance with the inventory
S Number:100000000562	10/12

Values

on Cancer

Globally Harmonized System

Inhibition Concentration 50%

Inventory of Existing Chemical

International Agency for Research

Greater Than or Equal To

GHS

IARC

IECSC

SDS Number:10000000562

>= IC50

SAFETY DATA SHEET

Version 3.3

Revision Date 2019-10-09

Taiwan TCS	il :	On the inventory,	or in compliance with the inventory
TION 16: Otl	ner information		
NFPA Class	Fire H	Hazard: 0 azard: 1 vity Hazard: 0	0 0
Further info	rmation		\checkmark
Legacy SDS	Number : 24037	0	
previous vers	sions. ion in this SDS pertains on	ly to the product as	the margin. This version replaces all shipped. ct to the best of our knowledge,
not to be cor specific mate	sidered a warranty or qual	ity specification. The ot be valid for such	portation, disposal and release and is e information relates only to the material used in combination with any xt.
			ised in the safety data sheet
ACGIH	American Conference of Government Industrial Hy	/gienists	Lethal Dose 50%
AICS	Australia, Inventory of Ch Substances	emical LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Subst List	ances NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Servic		New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 5		No Observed Effect Concentration
EGEST	EOSCA Generic Exposur Scenario Tool		Occupational Safety & Health Administration
EOSCA	European Oilfield Specia Chemicals Association	ty PEL	Permissible Exposure Limit
EINECS	European Inventory of Ex Chemical Substances	isting PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Cond	centration PRNT	Presumed Not Toxic

RCRA

STEL

SARA

TLV

TWA

Resource Conservation Recovery

Short-term Exposure Limit

Reauthorization Act.

Threshold Limit Value

Time Weighted Average

Superfund Amendments and

Act

11/12

SAFETY DATA SHEET

Marlex® 5628 Polyethylene

Version 3.3

Revision Date 2019-10-09

	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%		

SDS Number:10000000562