SAFETY DATA SHEET		
		Chevron Phillips
Marlex® 5104 Polyeth	vlene	Chemical Company LP
Version 1.6	yiene	Revision Date 2020-04-27
according to GB/T 16483 and G	B/T 17510	
SECTION 1: Identification of th	e substand	ce/mixture and of the company/undertaking
Product information		
Product Name Material	: 10423	x® 5104 Polyethylene 390, 1044343, 1042394, 1040347, 1042392, 1044342, 344, 1040350, 1044345, 1042393, 1042391, 1044341
Company	10001	ron Phillips Chemical Company LP 1 Six Pines Drive Voodlands, TX 77380
Emergency telephone:		
EUROPE: BIG +32.14.58 Mexico CHEMTREC 01-8	ional) 00 or 703.5 12 9186 11 34545 (phoi 800-681-95 ec Inside Bi	32) China: 0532 8388 9090 ne) or +32.14583516 (telefax)
Responsible Department E-mail address Website	: SDS@	ict Safety and Toxicology Group ඔCPChem.com CPChem.com
		Do not use this material in medical applications involving ody or permanent contact with internal body fluids or tissues
human body or contact with	internal boos Chemical	lications involving brief or temporary implantation in the dy fluids or tissues unless the material has been provided I Company LP or its legal affiliates under an agreement which ited use.
	warranty co	P and its legal affiliates makes no representation, promise, oncerning the suitability of this material for use in implantation ternal body fluids or tissues.
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SECTION 2: Hazards identification

Classification of the substance or mixture

GHS Classification and Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29 (GHS 2011)

Emergency Overview

Form: Pellets Physical state: Solid Color: Opaque Odor: Mild to no odor

Classification

Not a hazardous substance or mixture.

Labeling

Not a hazardous substance or mixture.

SECTION 3: Composition/information on ingredients

Chemical name		CAS-No. / EINECS-No.	Concentration [wt%]		
Polyethylene		9002-88-4	100		
Contains no hazardous ingredients according to GHS.					
CTION 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 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 measures					
CTION 5: Firefighting meas	ures				
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			
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		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.
TION 6: Accidental release	me	asures
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.
Environmental precautions Methods for cleaning up	:	Do not contaminate surface water. Prevent product from
Methods for cleaning up	:	Do not contaminate surface water. Prevent product from entering drains. Clean up promptly by sweeping or vacuum. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are
Methods for cleaning up Additional advice	: : :	Do not contaminate surface water. Prevent product from entering drains. Clean up promptly by sweeping or vacuum. 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
Methods for cleaning up Additional advice TION 7: Handling and stora	: : :	Do not contaminate surface water. Prevent product from entering drains. Clean up promptly by sweeping or vacuum. 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
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Methods for cleaning up Additional advice <u>TION 7: Handling and stora</u> Handling	: : : :	Do not contaminate surface water. Prevent product from entering drains. Clean up promptly by sweeping or vacuum. 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).
Methods for cleaning up Additional advice <u>TION 7: Handling and stora</u> Handling	: : :	Do not contaminate surface water. Prevent product from entering drains. Clean up promptly by sweeping or vacuum. 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).

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		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.
CTION 8: Exposure controls	/per	sonal protection
•		•
Engineering measures		
activities, and other substand personal protective equipment exposure to harmful levels of recommended. The user sho	ces i nt. f this ould	of this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and selecting If engineering controls or work practices are not adequate to preven s material, the personal protective equipment listed below is I read and understand all instructions and limitations supplied with s usually provided for a limited time or under certain circumstances.
Personal protective equipn	nen	t
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-

Vapor and Formaldehyde. Use a positive pressure, airsupplying 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.

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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 is heated is heated, wear insulated clothing to prevent skin contact if engineering controls or work practices are not adequate.

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ECTION 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			
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 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			
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			
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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 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 inform		
TION 11: Toxicological inform	nation	
Marlex® 5104 Polyethylene Acute oral toxicity	mation : Presumed Not Toxic	
Marlex® 5104 Polyethylene Acute oral toxicity Marlex® 5104 Polyethylene		
Marlex® 5104 Polyethylene Acute oral toxicity Marlex® 5104 Polyethylene Acute inhalation toxicity Marlex® 5104 Polyethylene	: Presumed Not Toxic : Presumed Not Toxic	
Marlex® 5104 Polyethylene Acute oral toxicity Marlex® 5104 Polyethylene Acute inhalation toxicity Marlex® 5104 Polyethylene Acute dermal toxicity Marlex® 5104 Polyethylene	 Presumed Not Toxic Presumed Not Toxic 	
Marlex® 5104 Polyethylene	 Presumed Not Toxic Presumed Not Toxic Presumed Not Toxic 	
Marlex® 5104 Polyethylene Acute oral toxicity Marlex® 5104 Polyethylene Acute inhalation toxicity Marlex® 5104 Polyethylene Acute dermal toxicity Marlex® 5104 Polyethylene Skin irritation Marlex® 5104 Polyethylene	 Presumed Not Toxic Presumed Not Toxic Presumed Not Toxic No skin irritation 	

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Sensitization	: Did not cause sensitization on laboratory animals.
Marlex® 5104 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.
CTION 12: Ecological informa	tion
Ecotoxicity effects	
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	
Short-term (acute) aquatic hazard	: This product has no known ecotoxicological effects.
Long-term (chronic) aquatic hazard	: This product has no known ecotoxicological effects.
CTION 13: Disposal considera	ations
The information in this SDS pe	ertains only to the product as shipped.
Use material for its intended p may meet the criteria of a haz other State and local regulatio regulated components may be	purpose or recycle if possible. This material, if it must be discarded, ardous waste as defined by US EPA under RCRA (40 CFR 261) or ons. Measurement of certain physical properties and analysis for e necessary to make a correct determination. If this material is the, federal law requires disposal at a licensed hazardous waste
CTION 14: Transport informat	ion
	hown here are for bulk shipments only, and may not apply to ages (see regulatory definition).
	stic or international mode-specific and quantity-specific Dangerous nal shipping description requirements (e.g., technical name or names
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	own here, may not always agree with the bill of lading shipping points for the material may vary slightly between the SDS and the
	ARTMENT OF TRANSPORTATION) ARDOUS MATERIAL OR DANGEROUS GOODS FOR AGENCY.
IMO / IMDG (INTERNATIONAL M NOT REGULATED AS A HAZA TRANSPORTATION BY THIS A	RDOUS MATERIAL OR DANGEROUS GOODS FOR
IATA (INTERNATIONAL AIR TRA NOT REGULATED AS A HAZA TRANSPORTATION BY THIS A	RDOUS MATERIAL OR DANGEROUS GOODS FOR
	R OUS GOODS BY ROAD (EUROPE)) ARDOUS MATERIAL OR DANGEROUS GOODS FOR AGENCY.
DANGEROUS GOODS (EUROPE	RDOUS MATERIAL OR DANGEROUS GOODS FOR
OF DANGEROUS GOODS BY IN	RDOUS MATERIAL OR DANGEROUS GOODS FOR
ansport in bulk according to Anne ECTION 15: Regulatory information	x II of MARPOL 73/78 and the IBC Code
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL Australia AICS	 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On or in compliance with the active portion of the TSCA inventory All components of this product are on the Canadian DSL On the inventory, or in compliance with the inventory

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	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 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
ECTION 16: Other information	

Further information

Legacy SDS Number : 240370

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	LD50	Lethal Dose 50%
	Government Industrial Hygienists		
AICS	Australia, Inventory of Chemical	LOAEL	Lowest Observed Adverse Effe
	Substances		Level
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 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 Substan
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 Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
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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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