SAFETY DATA SHEET



Marlex[®] D350 Polyethylene

Version 3.5

Revision Date 2024-05-10

SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product information** Product Name : Marlex® D350 Polvethylene Material 1130009, 1130010, 1130008, 1080521, 1019024, 1019023, 1019021, 1019020, 1019019, 1019566, 1019565, 1019564, 1019022, 1019568, 1018364, 1018361, 1019567 Company : Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380 **Emergency telephone:** Health: 866.442.9628 (North America) 1.832.813.4984 (International) Transport: CHEMTREC 800.424.9300 or 703.527.3887(int'l) Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 Mexico CHEMTREC 01-800-681-9531 (24 hours) South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 Argentina: +(54)-1159839431 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week) Belgium: 070 245 245 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Cyprus: 1401 Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402 Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Finland: 0800 147 111 09 471 977 (24 hours/day) France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week) Iceland: 543 2222 (24 hours/day, 7 days/week) Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) SDS Number:10000000668

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Italy: POISON CENTER MILAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 66101029; POISON CENTER ROME - Policlinico "Agostino Gemelli", Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME - Ospedale Pediatrico Bambino Gesù Tel. +39 06 68593726; POISON CENTER ROME - Policlinico "Umberto I" Tel. +39 06 4997 8000; POISON CENTER FOGGIA – Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER NAPLES – Azienda Ospedaliera "Antonio Cardarelli" Tel. +39 081 7472870; POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055 7947819: POISON CENTER PAVIA - IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 24444; POISON CENTER BERGAMO - Azienda Ospedaliera "Papa Giovanni XXIII" Tel. 800 883 300; POISON CENTER VERONA - Azienda Ospedaliera Universitaria integrata Tel. 800 011 858: Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 67042473. (24 hours.) Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Lithuania: +370 (85) 2362052 Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week) Malta: +356 2395 2000 The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week) Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Portugal: CIAV phone number: +351 800 250 250 Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112 Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week) Sweden: 112 – ask for Poisons Information : Product Safety and Toxicology Group Responsible Department E-mail address SDS@CPChem.com Website www.CPChem.com : MEDICAL APPLICATION CAUTION: Do not use this material in medical applications involving permanent implantation in the human body or permanent contact with internal body fluids or tissues fluids or tissues. Do not use this material in medical applications involving brief or temporary implantation in the human body or contact with internal body fluids or tissues unless the material has been provided directly from Chevron Phillips Chemical Company LP or its legal affiliates under an agreement which expressly acknowledges the contemplated use. Chevron Phillips Chemical Company LP and its legal affiliates makes no representation, promise, express warranty or implied warranty concerning the suitability of this material for use in implantation in the human body or in contact with internal body fluids or tissues. **SECTION 2: Hazards identification** Classification of the substance or mixture This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard. Classification Combustible dust Labeling

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Marlex® D350 Polyethylene

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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.	
CTION 3: Composition/in	formation on ingredients	
Component	CAS-No. Weight %	
Polyethylene Hexene Co		
CTION 4: First aid measu	ires	
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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.		
TION 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.		
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.		
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Promptly by sweeping or vacuum. osits should not be allowed to accumulate on as these may form an explosive mixture if they are into the atmosphere in sufficient concentration. Avoid of dust in the air (i.e., clearing dust surfaces with sed air). d housekeeping for safe handling of the product. Keep ter sources and sewers. Spilled pellets may create a hazard. atic charge may accumulate and create a hazardous when handling this material. To minimize this hazard, and grounding may be necessary, but may not by es be sufficient. At elevated temperatures (>350°F, polyethylene can release vapors and gases, which ing to the mucous membranes of the eyes, mouth, d lungs. These substances may include hyde, acetone, acetic acid, formic acid, formaldehyde lein. Based on animal data and limited logical evidence, formaldehyde has been listed as a an. Following all recommendations within this SDS inimize exposure to thermal processing emissions. a solid that can burn. Avoid generating dust; fine dust a f na ignition source is a potential dust explosion
osits should not be allowed to accumulate on as these may form an explosive mixture if they are into the atmosphere in sufficient concentration. Avoid of dust in the air (i.e., clearing dust surfaces with sed air).
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d in air in sufficient concentrations, and in the of an ignition source is a potential dust explosion a dry place. Keep in a well-ventilated place.
ore together with oxidizing and self-igniting products.
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meters
Volue Control parameters Note
Value Control parameters Note TWA 15 mg/m3 Total dust
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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. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, 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

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.
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рН	: 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					
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					
Dust deflagration index Kst	: > 0.0 m.b_/s					
SECTION 10: Stability and reactiv						
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					
Hazardous reactions	: Hazardous reactions: None known.					
Conditions to avoid	: Avoid prolonged storage at elevated temperature.					
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rlex® D350 Polyethy	SAFETY DATA SHE
rsion 3.5	Revision Date 2024-05
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 inform	nation
Marlex® D350 Polyethylene Acute oral toxicity	: Presumed Not Toxic
Marlex® D350 Polyethylene Acute inhalation toxicity	: Presumed Not Toxic
Marlex® D350 Polyethylene Acute dermal toxicity	: Presumed Not Toxic
Marlex® D350 Polyethylene Skin irritation	: No skin irritation
Marlex® D350 Polyethylene Eye irritation	: No eye irritation
Marlex® D350 Polyethylene Sensitization	: Did not cause sensitization on laboratory animals.
Marlex® D350 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 informat	ion
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Ecotoxicity effects	
Toxicity to fish	: Not applicable
Toxicity to daphnia and other aquatic invertebrates	: No data available
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	
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 considera	tions
The information in this SDS pe	rtains only to the product as shipped.
may meet the criteria of a haze other State and local regulation regulated components may be	arpose or recycle if possible. This material, if it must be discarded, ardous waste as defined by US EPA under RCRA (40 CFR 261) or ns. Measurement of certain physical properties and analysis for necessary to make a correct determination. If this material is e, federal law requires disposal at a licensed hazardous waste
ECTION 14: Transport informati	on
shipments in non-bulk packa Consult the appropriate domes Goods Regulations for addition etc.) Therefore, the informatio	hown here are for bulk shipments only, and may not apply to ages (see regulatory definition). Attic or international mode-specific and quantity-specific Dangerous and shipping description requirements (e.g., technical name or names, in shown here, may not always agree with the bill of lading shipping ashpoints for the material may vary slightly between the SDS and the
	EPARTMENT OF TRANSPORTATION) AZARDOUS MATERIAL OR DANGEROUS GOODS FOR HIS AGENCY.
	L MARITIME DANGEROUS GOODS) AZARDOUS MATERIAL OR DANGEROUS GOODS FOR

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TRANSPORTATION BY THIS AGENCY.

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.				
	ANGEROUS GOODS BY ROAD (EUROPE)) A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR (THIS AGENCY.			
DANGEROUS GOODS (EI	A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR			
OF DANGEROUS GOODS	EMENT CONCERNING THE INTERNATIONAL CARRIAGE BY INLAND WATERWAYS) A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR (THIS AGENCY.			
· .	k according to IMO instruments			
SECTION 15: Regulatory infor	mation			
National legislation	mation			
	: Combustible dust			
National legislation				
National legislation SARA 311/312 Hazards CERCLA Reportable	: Combustible dust : This material does not contain any components with a CERCLA			
National legislation SARA 311/312 Hazards CERCLA Reportable Quantity SARA 302 Reportable	 Combustible dust This material does not contain any components with a CERCLA RQ. This material does not contain any components with a SARA 			
National legislation SARA 311/312 Hazards CERCLA Reportable Quantity SARA 302 Reportable Quantity SARA 302 Threshold	 Combustible dust 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 			

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Clean Air Act	
Potential Clas	product 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 Subpt. A, App.A + B).
This product does not cont Act Section 112 (40 CFR 6	ain any hazardous air pollutants (HAP), as defined by the U.S. Clean 1).
	ain any chemicals listed under the U.S. Clean Air Act Section 112(r) fontion (40 CFR 68.130, Subpart F).
Intermediate or Final VOC	ain any chemicals listed under the U.S. Clean Air Act Section 111 SO s (40 CFR 60.489).
JS State Regulations	
U	
Pennsylvania Right To Kno	DW .
	: No components are subject to the Pennsylvania Right to Know Act.
California Prop. 65 Components	: This product, as shipped, does not contain any carcinogens or reproductive toxins presently known by the State of California to cause cancer or reproductive toxicity at a level of exposure subject to the requirements of California Proposition 65.
Notification status Europe REACH	: This product is in full compliance according to REACH regulation 1907/2006/EC.
Switzerland CH INV United States of America (TSCA	: On the inventory, or in compliance with the inventory
Canada DSL	: All components of this product are on the Canadian DSL
Australia AIIC	: On the inventory, or in compliance with the inventory
New Zealand NZIoC	On the inventory, or in compliance with the inventoryOn the inventory, or in compliance with the inventory
Japan ENCS	
	On the inventory, or in compliance with the inventoryOn the inventory, or in compliance with the inventory

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Korea KECI	notifie by CP Impor permi thems amou	d to be register Chem accordin tation or manufa tted provided th elves notified th nt does not exce	s product was not registered, red, or exempted from registration of to K-REACH regulations. acture of this product is still be Korean Importer of Record has he substance or the exported reed the minimum threshold egistered substance(s).
Taiwan TCS	SI : On the	e inventory, or i	n compliance with the inventory
FION 16: Otl	her information		
NFPA Class	ification : Health Hazard Fire Hazard: 1 Reactivity Haz	-	
Further info	rmation		\checkmark
Legacy SDS	Number : 240370		
previous vers	tion in this SDS pertains only to the	product as ship	oped.
previous vers The informat The informat information a guidance for not to be cor	sions. tion in this SDS pertains only to the tion provided in this Safety Data Sh and belief at the date of its publicati safe handling, use, processing, sto nsidered a warranty or quality speci	product as ship eet is correct to on. The informa orage, transport fication. The inf	oped. the best of our knowledge, ation given is designed only as a tation, disposal and release and is formation relates only to the
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SAFETY DATA SHEET

Version 3.5

Revision Date 2024-05-10

MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery 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
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%	ATE	Acute toxicity estimate