

Marlex® LF083 Polyethylene

Version 3.3

Revision Date 2019-10-18

TION 1: Identification of	the substance/i	/mixture and of the company/undertaking
Product information		
Product Name Material		© LF083 Polyethylene 6, 1112995, 1112994, 1112993, 1112992, 1112971, 0
Company	10001 Si	n Phillips Chemical Company LP Six Pines Drive vodlands, TX 77380
Emergency telephone:		
EUROPE: BIG +32.14 Mexico CHEMTREC (national) .9300 or 703.527. +612 9186 1132) I.584545 (phone))1-800-681-9531 Cotec Inside Brazi	2) China: 0532 8388 9090) or +32.14583516 (telefax)
Responsible Department E-mail address Website	: SDS@C	Safety and Toxicology Group CPChem.com PChem.com
		not use this material in medical applications involving by or permanent contact with internal body fluids or tissues
human body or contact w	rith internal body f illips Chemical Co	ations involving brief or temporary implantation in the fluids or tissues unless the material has been provided company LP or its legal affiliates under an agreement which d use.
express warranty or impli	ed warranty conc	and its legal affiliates makes no representation, promise, cerning the suitability of this material for use in implantatio nal 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. 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			<u> </u>		
Component			CAS-No.	Weight %	
Polyethylene Hexene Copoly	/me	r	25213-02-9	99 - 100	
TION 4: First aid measures					
If inhaled	:	fumes f		of accidental inhalatio r combustion. If sym	
In case of skin contact	:	immedi	ate medical attent	on skin, quickly cool on. Do not try to pee use solvents or thinne	I the solidified
In case of eye contact	:		ase of contact with r and seek medica	n eyes, rinse immedia I advice.	tely with plenty
If swallowed	:	Do not	induce vomiting w	thout medical advice.	
TION 5: Firefighting measu	res				
Flash point	:	No data	a available		
Autoignition temperature	:	: No data available			
Suitable extinguishing media	:	Foam. fogging applica surface create a extingu	If possible, water nozzle since this tion of high velocit layer. Avoid the u a dust cloud and th ishing measures th	themical. Carbon dio should be applied as s a surface burning n y water will spread the use of straight stream the risk of a dust explo- nat are appropriate to rrounding environment	a spray from a naterial. The e burning s that may sion. Use local
Specific hazards during fire fighting	:	explosi		by flame propagation by the accumulation	
Special protective equipment for fire-fighters	:			quipment. Wear self- efighting if necessary	
Further information	:	This ma	aterial will burn alth	hough it is not easily i	gnited.
Fire and explosion protection	:	dispers	ed in air in sufficie ce of an ignition sc	ourn. Avoid generatin nt concentrations, and urce is a potential du	d in the
Hazardous decomposition products	:	produce	e carbon monoxide	carbon dioxide, wate e, other hydrocarbons oducts (ketones, aldel	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

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 cher	nica	l properties

Appearance	
Form Color Odor Odor Threshold	 Pellets 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.
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
		Not applicable

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 an anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous rea	ctions
Hazardous reactions	: Hazardous reactions: None known.
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, organ 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 infor	nation
Marlex® LF083 Polyethylene Acute oral toxicity	: Presumed Not Toxic
	: Presumed Not Toxic
Acute oral toxicity Marlex® LF083 Polyethylene	Presumed Not ToxicPresumed Not Toxic
Acute oral toxicity Marlex® LF083 Polyethylene Acute inhalation toxicity Marlex® LF083 Polyethylene	 Presumed Not Toxic Presumed Not Toxic Presumed Not Toxic
Acute oral toxicity Marlex® LF083 Polyethylene Acute inhalation toxicity Marlex® LF083 Polyethylene Acute dermal toxicity Marlex® LF083 Polyethylene	 Presumed Not Toxic Presumed Not Toxic Presumed Not Toxic No skin irritation
Acute oral toxicity Marlex® LF083 Polyethylene Acute inhalation toxicity Marlex® LF083 Polyethylene Acute dermal toxicity Marlex® LF083 Polyethylene Skin irritation Marlex® LF083 Polyethylene	 Presumed Not Toxic Presumed Not Toxic Presumed Not Toxic No skin irritation No eye irritation
Acute oral toxicity Marlex® LF083 Polyethylene Acute inhalation toxicity Marlex® LF083 Polyethylene Acute dermal toxicity Marlex® LF083 Polyethylene Skin irritation Marlex® LF083 Polyethylene Eye irritation	 Presumed Not Toxic Presumed Not Toxic Presumed Not Toxic No skin irritation No eye irritation Did not cause sensitization on laboratory animals.

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can lead to pulmonary edema. Formaldehyde (an aldehyde) has been classified as a carcinogen based on animal data and limited epidemiological evidence.

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	tence and degradability)
Bioaccumulation	: Does not bioaccumulate.
Mobility	: The product is insoluble and floats on water.
Results of PBT assessment	: Non-classified vPvB substance
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.
TION 13: Disposal consideration	ations
The information in this SDS po	ertains 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

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bill of lading.

US DOT (UNITED STATES NOT REGULATED AS A TRANSPORTATION BY	DEPARTMENT OF TRANSPORTATION) A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
	NAL MARITIME DANGEROUS GOODS) A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
	IR TRANSPORT ASSOCIATION) A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
	ANGEROUS GOODS BY ROAD (EUROPE)) A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
DANGEROUS GOODS (EL	A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR
OF DANGEROUS GOODS	MENT CONCERNING THE INTERNATIONAL CARRIAGE BY INLAND WATERWAYS) A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
Transport in bulk according to	Annex II of MARPOL 73/78 and the IBC Code
SECTION 15: Regulatory inform	mation
National legislation	
SARA 311/312 Hazards	: Combustible dust
CERCLA Reportable Quantity	: This material does not contain any components with a CERCLA RQ.
SARA 302 Reportable Quantity	: This material does not contain any components with a SARA
Quantity	302 RQ.
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SARA 302 Threshold Planning Quantity	: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.		
SARA 304 Reportable Quantity	: This material does not contain any components with a section 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			
Potential Class II	duct neither contains, nor was manufactured with a Class I or ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR pt. A, App.A + B).		
This product does not contain a Act Section 112 (40 CFR 61).	any hazardous air pollutants (HAP), as defined by the U.S. Clean A		
This product does not contain a Accidental Release Prevention	any chemicals listed under the U.S. Clean Air Act Section 112(r) fo (40 CFR 68.130, Subpart F).		
This product does not contain a Intermediate or Final VOC's (4	any chemicals listed under the U.S. Clean Air Act Section 111 SOC 0 CFR 60.489).		
US State Regulations			
Pennsylvania Right To Know	: 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 mixture contains only ingredients which have been		
	registered according to Regulation (EU) No. 1907/2006 (REACH).		
Switzerland CH INV	: On the inventory, or in compliance with the inventory		
United States of America (USA			
United States of America (USA TSCA Canada DSL	: All components of this product are on the Canadian		

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Australia AIC New Zealand Japan ENCS Korea KECI	S : (NZIOC : (: / : / : /	DSL 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 All substances in this product were registered, notified to be registered, or exempted from registration by CPChem through an Only Representative according to K-REACH regulations. Importation of this product is permitted if the Korean Importer of Record was included on CPChem's notifications or if the Importer of Record themselves notified the substances.		
Philippines P 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		
TION 16: Oth	er information			
NFPA Classi	Fire Haza	ard: 1 / Hazard: 0		
	anges since the last version	are highlighted in the	e margin. This version replaces all	
Significant ch previous vers	anges since the last version			
Significant ch previous vers The information information ar guidance for s not to be cons specific mater other materia	anges since the last version ions. on in this SDS pertains only t on provided in this Safety Da nd belief at the date of its put safe handling, use, processin sidered a warranty or quality rial designated and may not b ls or in any process, unless s	to the product as ship ta Sheet is correct to plication. The informa ig, storage, transport specification. The in- pe valid for such mat specified in the text.	pped. o the best of our knowledge, ation given is designed only as a tation, disposal and release and is formation relates only to the terial used in combination with any	
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Significant ch previous vers The information information and guidance for s not to be cons specific materia other materia K ACGIH AICS DSL NDSL CNS	anges since the last version ions. on in this SDS pertains only to on provided in this Safety Da nd belief at the date of its put safe handling, use, processin sidered a warranty or quality rial designated and may not b ls or in any process, unless s ey or legend to abbreviations American Conference of Government Industrial Hygie Australia, Inventory of Chem Substances Canada, Domestic Substance List Canada, Non-Domestic Substances List Central Nervous System	to the product as ship ta Sheet is correct to olication. The informa- ing, storage, transport specification. The in- be valid for such mat specified in the text. and acronyms used bical LOAEL ces NFPA NIOSH NTP	pped. to the best of our knowledge, ation given is designed only as a tation, disposal and release and is formation relates only to the terial used in combination with any d in the safety data sheet Lethal Dose 50% Lowest Observed Adverse Effect Level National Institute for Occupations Safety & Health National Toxicology Program New Zealand Inventory of Chemicals No Observable Adverse Effect	
Significant ch previous vers The information information and guidance for s not to be cons specific materia other materia ACGIH AICS DSL NDSL CNS CAS EC50	anges since the last version ions. on in this SDS pertains only to on provided in this Safety Da nd belief at the date of its put safe handling, use, processin sidered a warranty or quality rial designated and may not be ls or in any process, unless s ey or legend to abbreviations American Conference of Government Industrial Hygic Australia, Inventory of Chem Substances Canada, Domestic Substance List Canada, Non-Domestic Substances List Central Nervous System Chemical Abstract Service Effective Concentration	to the product as ship ta Sheet is correct to olication. The informa- og, storage, transport specification. The in- be valid for such mat specified in the text. and acronyms used LD50 Enists LOAEL Ses NFPA NIOSH NTP NZIOC NOAEL	pped. to the best of our knowledge, ation given is designed only as a tation, disposal and release and is formation relates only to the terial used in combination with any d in the safety data sheet Lethal Dose 50% Lowest Observed Adverse Effect Level National Institute for Occupationa Safety & Health National Institute for Occupationa Safety & Health National Toxicology Program New Zealand Inventory of Chemicals No Observable Adverse Effect Level	
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FINECS	European Inventory of Eviation	DICCC	Dhilippingg Inventory of
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
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%		