

Marlex® 4100T Polyethylene

Version 3.3

Revision Date 2019-10-08

CTION 1: Identification of	of the substan	nce/mixture and of the company/undertaking
Product information		
Product Name Material	: 1040	ex® 4100T Polyethylene 0242, 1040245, 1042298, 1044267, 1044268, 1044269, 2297, 1042296, 1042295, 1042294, 1044270, 1044266
Company	1000	vron Phillips Chemical Company LP)1 Six Pines Drive Woodlands, TX 77380
Emergency telephone:		
EUROPE: BIG +32.1 Mexico CHEMTREC	rnational) 4.9300 or 703.((+612 9186 11 4.584545 (pho 01-800-681-95 Cotec Inside B	132) China: 0532 8388 9090 one) or +32.14583516 (telefax)
Responsible Departmen E-mail address Website	: SDS	luct Safety and Toxicology Group @CPChem.com /.CPChem.com
		Do not use this material in medical applications involving body or permanent contact with internal body fluids or tissues
human body or contact v	with internal bo nillips Chemica	plications involving brief or temporary implantation in the ody fluids or tissues unless the material has been provided al Company LP or its legal affiliates under an agreement which lated use.
express warranty or imp	lied warranty o	P and its legal affiliates makes no representation, promise, concerning the suitability of this material for use in implantation nternal 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.
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.

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SECTION 3: Composition/information on ingredients

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 dus fumes from overheating or combustion. If symptoms per call a physician.	
In case of skin contact	: If the molten material gets on skin, quickly cool in water immediate medical attention. Do not try to peel the soli material from the skin or use solvents or thinners to dis	dified
In case of eye contact	: In the case of contact with eyes, rinse immediately with of water and seek medical advice.	plenty
If swallowed	: Do not induce vomiting without medical advice.	

SECTION 5: Firefighting measures

<u></u>		
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
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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

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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 che	mical	properties

Appearance	
Form Physical state Color Odor Odor Threshold	 Pellets Solid Opaque Mild to no odor No data available
Safety data	

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Flash point	: N	No data available
Lower explosion limit	: N	Not applicable
Upper explosion limit	: N	Not applicable
Autoignition temperature	: N	No data available
Thermal decomposition		Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing.
рН	: N	Not applicable
Melting point/range	: 9	90 - 140 °C (194 - 284 °F)
Freezing point	١	Not applicable
Initial boiling point and boiling range	: N	Not applicable
Vapor pressure	: N	Not applicable
Relative density	: N	Not applicable
Density	F	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	: N	Vegligible
Partition coefficient: n- octanol/water	: N	No data available
Solubility in other solvents	: N	No data available
Viscosity, dynamic	: N	Not applicable
Viscosity, kinematic	: N	Not applicable
Relative vapor density	: N	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 and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous rea	actions
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 infor	mation
Marlex® 4100T Polyethylene Acute oral toxicity	e : Presumed Not Toxic
Marlex® 4100T Polyethylene Acute inhalation toxicity	e : Presumed Not Toxic
Marlex® 4100T Polyethylene Acute dermal toxicity	e : Presumed Not Toxic
Marlex® 4100T Polyethylene Skin irritation	e : No skin irritation
Marlex® 4100T Polyethylene Eye irritation	e : No eye irritation
Marlex® 4100T Polyethylene Sensitization	e : Did not cause sensitization on laboratory animals.
Marlex® 4100T 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

Biodegradability: This material is not expected to be readily biodegradable.Elimination information (persistence 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)

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NOT REGULATED AS A TRANSPORTATION BY	A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
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	A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR
	MENT CONCERNING THE INTERNATIONAL CARRIAGE BY INLAND WATERWAYS)
	A HAZARDOUS MATERIAL ÓR DANGEROUS GOODS FOR
sport in bulk according to	Annex II of MARPOL 73/78 and the IBC Code
TION 15: Regulatory inform	mation
	mation
National legislation	mation : Combustible dust
National legislation SARA 311/312 Hazards CERCLA Reportable	
National legislation SARA 311/312 Hazards CERCLA Reportable Quantity SARA 302 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 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
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Korea KECI

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Clean Air Act Ozone-Depletion : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR Potential 82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (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 : This product does not contain any chemicals known to the State Components of California to cause cancer, birth, or any other reproductive defects. Notification status Europe REACH A substance or substances in this product is not registered or notified to be registered. Importation or manufacture of this product is still permitted provided that it does not exceed the REACH minimum threshold quantity of the non-regulated substances. Switzerland CH INV On the inventory, or in compliance with the inventory On or in compliance with the active portion of the United States of America (USA) TSCA **TSCA** inventory Canada DSL 5 All components of this product are on the Canadian DSL Australia AICS On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory New Zealand NZIoC 2 Japan ENCS On the inventory, or in compliance with the inventory 1

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A substance(s) in this product was not registered,

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notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still

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ion 3.3			Revision Date 2019-1		
			he Korean Importer of Record has the substance.		
Philippines F China IECS Taiwan TCS	C : On the	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: Otl	her information				
NFPA Class	ification : Health Hazard: Fire Hazard: 1 Reactivity Haza		1		
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Further info	rmation				
Significant ch previous vers	nanges since the last version are hig sions.	hlighted in th	e margin. This version replaces all		
			inned		
I ne informat	ion in this SDS pertains only to the p	product as shi	ppea.		
guidance for	safe handling, use, processing, stor	n. The inform age, transpor			
guidance for not to be con specific mate other materia	safe handling, use, processing, stor isidered a warranty or quality specifi erial designated and may not be valid als or in any process, unless specifie	n. The inform age, transpor cation. The in d for such ma ed in the text.	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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Marlex® 4100T Polyethylene

Version 3.3

Revision Date 2019-10-08

	on Cancer		
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%		

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