

SAFETY DATA SHEET

VENELENE[®] POLYETHYLENE



Product Identification		
Supplier: Poliolefinas Internacionales, POLINTER.	Chemical Name and Synonyms: Polyethylene (low, low linear, medium and high density) or PEBD, PELBD, PEMD and PEAD.	Emergency Phone Numbers: (58261) 7962822 (58261) 7962683 (58261) 7962477
CAS Number:	9002-88-4	
Description: White Granules.		Review Date: 28/08/2007.
Components and Exposure Limits		
Components	Weight Percentage.	Exposure Limit.
Ethylene Homopolymer (CAS N° 9002-88-4) Ethylene Butene Copolymer (CAS N° 25087-34-7) Ethylene Octene Copolymer (CAS N° 26221-73-8) Ethylene Butene Octene Copolymer (CAS N° 28829-58-5)	100 approximately.	15 mg/m ³ OSHA. Uncomfortable Dust.
It may contain additives such as: Anti-oxidants, stabilizers, process assistants, slickers, anti-blockage in the following concentrations: 0 to 1% weight.		
Typical Properties		
Appearance: Translucent	Boiling Point: N / A	Water Solubility: Insignificant
pH: N / A	Smell: Soft	Steam Pressure: N / A
Weight Volatility: 0.1% Max	Absolute Density: 0.90 – 0.97 g / cc	Steam Density: N / A
Evaporation Rate: N / A	Melting Point: 230 – 275°F (110 – 135°C)	
Fire and Explosion Hazards		
Auto-Ignition Temperature: About 662 °F (350°C) There is no fire without the presence of a direct flame.	Flashpoint: About 624°F (329°C)	Air Flammability limit: N / A
NFPA Hazard Classification: 0-1-0-NA	HMIS Rating: 0-1-0-A	Extinguishing Means: Carbon Dioxide, Foam, Dry Chemical and Water.
Special Procedures for fire Extinguishing		
Explosion or unusual fire hazards	Large volumes of polyethylene stored may generate gasses which represent a potential explosion risk. Gas concentrations must be maintained below LEL of 2.7%.	
Auto-Ignition Temperature: About 662 °F (350°C) There is no fire without the presence of a direct flame.	Flashpoint: About 624°F (329°C)	
Health Hazard		
Acute Health Effects:		
	Eyes:	Product dust may cause irritations. Melted resin fumes may cause irritation.
	Skin:	The product in its granulated form does not cause irritation or dermatitis; liquid product may cause burns.
	Inhalation:	Hazards at room temperature (-0.4 to 100.4 °F) (-18 to 38°C) is insignificant. Inhalation of fine particles or melted material fumes may cause irritation of nose and throat.
	Ingestion:	It is not expected any adverse reaction in case of ingestion. ALD oral doses are > 7000 mg / kg in rats.
Chronic Health Effects: None	Severe Medical Conditions due to exposure: unknown	Main Entry Ways: Inhalation, ingestion, exposure to dust generated by mechanization or pulverization must be prevented with ventilation and protection of respiratory paths.
Carcinogenicity:	OSHA:	Non Listed
	National Toxicity Program:	Non Listed
	Cancer Research International Agency:	Non Listed
Toxicological Data:	Non toxic based on performed studies with similar products and components.	
First Aid Procedures		
	Eyes:	Wash with abundant water. If irritation persists, ask for medical assistance.
	Skin:	Wash the skin with water and soap. In case of burns, cool the area with water and ask for medical assistance.
	Inhalation:	If exposed to dust or fumes, retire the patient to a clear air zone. If breathing is difficult, supply oxygen and ask for medical assistance. If the victim stops breathing, provide artificial breathing and ask for medical assistance.
	Ingestion:	No first aid is required

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Personal Protection	
Breathing Mask:	Use a protective mask if dust levels exceed 15 mg / m ³ .
Skin:	When working with melted material, use protective gloves and wear long-sleeved clothes.
Eyes:	Safety glasses must be worn every time. Closed safety glasses must be worn when manipulating melted material.
Ventilation:	It is recommended the use of fans to reduce dust and fume exposure.
Reactivity	
Thermal Decomposition Hazards:	Incomplete combustion may cause carbon dioxide, carbon monoxide, aldehyde, hydrocarbons and formaldehyde.
Stability:	The material is stable.
Incompatible Materials:	These materials are incompatible with strong oxidants.
Dangerous Materials:	Unknown
Polymerization hazards:	It must not occur.
Procedures in case of Spills, Leaks and Disposition	
Procedures in case of Spills and Leaks:	Sweep the material for its disposal.
Disposal Procedures:	Products are not dangerous in its commercial form. They may be recycled in an authorized recycling center or disposed in an approved disposal center by governmental authorities.
Environmental Impact:	This material must not generate any environmental problem. It is expected a low toxicity due to its insolubility in water.
Additional Precautions	
Storage:	It must be stored in a ventilated area away from ignition sources. It must not be stored with incompatible materials.
Transfer:	It is recommended to ground equipments before transferring products.
Regulatory Data	
OSHA:	Uncomfortable dust. It is not considered dangerous pursuant CFR 29, 1200 OSHA or WHMIS (Canadian Legislation)
EEC Guidelines:	None regulated. It does not require classification or tag.
Resource Renovation and Conservation Act:	None Regulated.
Superfund Amendments:	None Regulated.
Reauthorization Act:	None Regulated.
Department of Transport:	None Regulated.
IATA:	None Regulated.
CINEG:	Non Regulated
Clean Air Act:	Non Regulated
Position 65:	Non Regulated
Product Storage	
<ul style="list-style-type: none"> - Polyethylene suffers alterations in its physical-chemical properties, whose magnitude depend on the severity of environmental conditions of storage. <input type="checkbox"/> Product exposure to temperatures over 40°C, sunlight incidence and humidity may deteriorate packing material, as well as the product itself. - It is recommended the storage of the product in roofed facilities, well ventilated and cool, so that the level of degradation of properties is minimal. For storage under the incidence of sunlight, it is required to use bicolor sheets that protect from UV rays to the sacks that contain Venelene[®] resins. <input type="checkbox"/> In order to obtain a high product performance and a high level of consistency between batches, it is recommendable to set a stock rotation system of raw materials, process products or finished products that minimize the storage period. 	
Packaging	
<ul style="list-style-type: none"> - Venelene[®] Products feature packages that facilitate the handling, transportation and storage thereof. Packaging material used avoids the contamination of the product during its transport and storage. - Due to the fact that externally adhered pollutants to packaging material may be dragged to the transformation process, and thus altering the manufacture properties, it is recommended the protection of the load of resin during transportation and follow the storage indications and suggestions herein described. <input type="checkbox"/> Packaging material of Venelene[®] products is not intended to support photo-oxidizing effects produced by the direct exposure to sunlight in a period of over 3 months. In case that such period is extended, an inspection must be made in order to replace the packaging material if necessary. 	

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Polinter Responsibility

Polinter warrants that the aforementioned information is correct and that we maintain constant productive processes. Furthermore, we will inform you about any changes in the formulation in the products supplied.

All sanitary and safety data contained in this bulletin must be transmitted to all employees and consumers. Polinter trusts that user will employ this information to develop proper work practices and specific training programs for employees and users.

Given the fact that Polinter is not empowered to warrant the modifications in the physical or chemical composition of Venelene products during its transformation and conversion as a result of the incorporation of other additives, pigments or resins, the transformer of the resin is liable to determine the compliance levels of sanitary requirements once transformed the product, in the application of final user.

The compliance of all federal, state and local laws, as well as use, sale, transport or deposition regulations about this material and the products manufactured are liability of the user.

This bulletin has been elaborated by the Marketing Management of Polinter, with the support of specialists of Investigación y Desarrollo, C.A. (INDESCA), and the Technical Services Management of CORAMER. It is intended to all the users of Venelene resins and we trust that the information herein contained will be useful.

In case of comments or suggestions, please write to info@polinter.com.ve or contact our Commercial Agent at <http://www.coramer.com>