

Material Safety Data Sheet

U.S. Department of Labor

May be used to comply with

OSHA's Hazard Communication Standard,
29 CFR 1910.1200.

Occupational Safety and Health
Administration

(Non-Mandatory Form)

Form Approved

OMB No. 1218-0072

IDENTITY *(As Used on Label and List)*
Prodex Reflective Insulation

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name Prodex	Emergency Telephone Number (506) 4001-5330
Address <i>(Number, Street, City, State, and ZIP Code)</i> BES Free Zone P.O.Box 44-1000	Telephone Number for Information (506) 2438-2322
San Jose, Costa Rica	Date Prepared September 24, 2019

Section II - Hazard Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	wt. %
Polyethylene Foam CAS: 900 2 884	NE *	NE	NE	50-100
Hydrocarbon CAS: 75 28 5, 74 98 6, 109 66 0 isobutene, propane, pentane	800 ppm	800 ppm	NE	trace
Metallized PET CAS: 25038-59-9	NE	NE	NE	0-50

*NE None Established

Section III - Physical/Chemical Characteristics

Polyethylene Foam

Boiling Point	N/A*	Specific Gravity (H ₂ O = 1)	0.1-0.2
Vapor Pressure (mm Hg.)	N/A	Melting Point	110-140 °C
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water not soluble			
Appearance and Odor white or clear plastic, no odor			

* N/A/ not applicable

Metallized PET

Boiling Point	350 °C	Specific Gravity (H ₂ O = 1)	1.56-1.59
Vapor Pressure (mm Hg.)	N/A	Melting Point	>250 °C
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water not soluble			
Appearance and Odor bright silver-colored metal, no odor			

Hydrocarbon Gas

Trace amounts that are gradually lost after manufacture.

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	N/A
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water slightly soluble			
Appearance and Odor colorless gas, no odor at the concentration present in foam			

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) Polyethylene N/A Metallized Pet N/A Hydrocarbon gas -80 to -90 °C (trace amounts present in foam)	Flammable Limits Polyethylene NE Metallized Pet N/A Hydrocarbon NE	LEL N/A N/A 1.8 vol%	UEL N/A N/A 8.5 vol%
Extinguishing Media Water, Water fog, Dry Chemical Extinguishers, Carbon Dioxide			
Special Fire Fighting Procedures Use self-contained breathing apparatus with positive pressure.			
Unusual Fire and Explosion Hazards Charred, burned, or smoldering insulation must be removed from building.			

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	
Incompatibility (<i>Materials to Avoid</i>) Avoid contact between aluminum and wet cement or concrete. Avoid contact with strong oxidants.			
Hazardous Decomposition or Byproducts None			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? N/A	Skin? N/A	Ingestion? yes (unlikely)
Health Hazards (<i>Acute and Chronic</i>) N.E.			
Gastrointestinal symptoms may result from ingestion.			
Carcinogenicity: No	NTP? No	IARC Monographs? None known	OSHA Regulated? No
Signs and Symptoms of Exposure N/A			
Medical Conditions Generally Aggravated by Exposure			
NE			
Emergency and First Aid Procedures N/A			

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
No special care required.
Waste Disposal Method
No special care required.
Precautions to be taken in Handling and Storing
Trace amounts of hydrocarbon may be released during storage or transport. Large quantities of foam should be stored or transported with ventilation. The insulation should not be stored near heating equipment. Polyethylene foam will burn readily if exposed to a flame of a hot ignition source. Maximum storage temperature 70 °C.
Other Precautions
Prodex shall not be stored in contact with any surface above 90 °C.

Section VIII - Control Measures

Respiratory Protection (<i>Specify Type</i>) None required		
Ventilation When stored	Local Exhaust N/A	Special N/A
	Mechanical (<i>General</i>) N/A	Other N/A
Protective Gloves Not required	Eye Protection Normal protection for construction site	
Other Protective Clothing or Equipment None		

Work/Hygienic Practices
Normal cleanliness

Additional Information

Disposal: Quantities of Prodex in excess of 100 pounds should be recycled. Small quantities of Prodex insulation can be sent to municipal landfills after checking state and local regulations.

Transport: Prodex is not listed as a hazardous material by the U.S.D.O.T. Prodex is not regulated for international rail, highway, or air transport.

Prodex NFPA Classification: Health – 0 Flammability – 1 Reactivity- 0
Hazardous Materials Information System: Flammability - 1
Reactivity - 0
Acute Health - 0

* U.S.G.P.O.: 1986 - 491 - 529/45775