

Material Safety Data Sheet	U.S. Department of Labor
May be used to comply with:	Occupational Safety and Health Administration
OSHA's Hazard Communication Standard,	(Non-Mandatory Form)
29 CFR 1910.1200.	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

San Jose, Costa Rica	Date Prepared November 1, 2006
----------------------	-----------------------------------

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
Aluminum (foil) CAS: 74 29 905	NE *	NE *	NE *	0-50

*NE - None Established

Section III - Physical/Chemical Characteristics

Polyethylene Foam

Boiling Point	N/A*	Specific Gravity (H2O = 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

Aluminum Foil

Boiling Point	N/A*	Specific Gravity (H2O = 1)	2.72-2.73
Vapor Pressure (mm Hg.)	N/A*	Melting Point	630-660 °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 (H2O = 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)	Flammable Limits	LEL	UEL
Polyethylene N/A	Polyethylene NE	N/A	N/A
Aluminum N/A	Aluminum N/A	N/A	N/A
Hydrocarbon gas -80 to -90 °C (trace amounts present in foam)	Hydrocarbon NE	1.8 vol%	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 (Materials to Avoid)	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 (Acute and Chronic) - N.E.			
Gastrointestinal symptoms may result from ingestion.			
Carcinogenicity: NO	NTP?: NO	IARC Monographs? None known	OSHA Regulated? No
Signs and Symptoms of Exposure: NA			
Medical Conditions Generally Aggravated by Exposure: NE			
Emergency and First Aid Procedures: NA			

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 (Specify Type)	None required		
Ventilation When stored	Local Exhaust: NA	Special: NA	
	Mechanical (General): NA	Other: NA	
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			