

# MATERIAL SAFETY DATA SHEET

REEF INDUSTRIES, INC.

HMS CODES:

HEALTH: 0  
FLAMMABILITY: 1  
REACTIVITY: 0

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PREPARED: 6/20/2006  
SUPERSEDES: 4/21/03

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PERMALON X-100 FR AND X-200 FR  
GENERAL OR GENERIC ID: Fire Retardant Polyethylene Copolymer  
CHEMICAL FAMILY: Polyethylene Copolymer/Metal oxide/Organic Bromide

CONTACT ADDRESS: Reef Industries, Inc.  
9209 Almeda Genoa Road  
Houston, Texas 77075

EMERGENCY TELEPHONE NUMBERS: (713) 507-4349 (24 Hours)  
(713) 507-4200 (8:00 - 5:00 Central Time)

## SECTION 2 HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

This product is not hazardous as defined in 29 CFR 1910.1200  
Chemicals subject to reporting requirements of SARA Title III section 313 are identified in this section

INGREDIENT:	CAS No:	% by WEIGHT:	PEL:	STEL:	NOTE:
Antimony Trioxide (Sb <sub>2</sub> O <sub>3</sub> )	1309-64-4	1-10%	.05mg/m <sup>3</sup>	.75 mg/m <sup>3</sup>	PEL 8hr TWA

## SECTION 3 PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point:	NA	Specific Gravity (Water = 1):	0.92 - 0.97
Vapor Pressure (mm Hg.):	NA	Melting Point: °F	215-280 °F
Vapor Density (Air = 1):	NA	Evaporation Rate:	NA
Solubility in Water: Insoluble		Appearance and Odor: Plastic Film Laminate	

## SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used):	646 Deg. F ASTM E-136	Flammable Limits:	LEL	UEL
			NA	NA

Extinguishing Media: Water spray, Foam, Dry Chemical, or CO<sub>2</sub>

### Special Fire Fighting Procedures:

Fire fighters should be equipped with self-contained breathing apparatus when fighting fires involving this material.

### Unusual Fire and Explosion Hazards:

Fire may produce toxic/corrosive gases and dense smoke.

**SECTION 5 REACTIVITY DATA**

<b>Stability:</b>	Stable	<b>Incompatibility (Materials to Avoid):</b>	Avoid Strong Oxidizing Agents
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**Hazardous Decomposition or Byproducts:**  
 Antimony Oxides, Oxides, Oxides of Nitrogen, Hydrogen Bromide, Hydrogen Cyanide, CO<sub>2</sub> and CO when subjected to flames or excessive heat

**Hazardous Polymerization:** Will not occur

**SECTION 6 HEALTH HAZARD DATA**

<b>Primary Route(s) of Entry:</b>	<b>Inhalation?</b> No	<b>Absorption?</b> No	<b>Ingestion?</b> No
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**Health Hazards (Acute and Chronic):**  
 Inhalation: None at ambient temperatures ( -18 to +38 degrees C)  
 Absorption: None  
 Ingestion: No significant health hazards identified

<b>Carcinogenicity:</b>	<b>NTP?</b> None	<b>IARC Monographs?</b> None	<b>OSHA Regulated?</b> None
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**Signs and Symptoms of Exposure:**  
 Inhalation: N/A                      Absorption: N/A                      Ingestion: N/A

**Medical Conditions Generally Aggravated by Exposure:**  
 Inhalation: None                      Absorption: None                      Ingestion: None

**Emergency and First Aid Procedures:**  
 Inhalation: N/A                      Absorption: N/A                      Ingestion: N/A

**SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE**

<b>Steps to Be Taken in Case Material Is Released or Spilled:</b> N/A with	<b>Waste Disposal Method:</b> In accordance with local, state and federal regulations.
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**Precautions to Be Taken in Handling and Storage:** N/A

**Other Precautions:** N/A

**SECTION 8 CONTROL MEASURES**

**Respiratory Protection:** None

**Ventilation:** None

<b>Protective Gloves:</b> N/A	<b>Eye Protection:</b> N/A
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**Other Protective Clothing and Equipment:** N/A

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