

MATERIAL SAFETY DATA SHEET



FoamMart
For Home and Industry

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **POLYETHYLENE FOAM PRODUCTS**, Modified with Additives*
Including Astro-Foam® Roll and Sheet, Furniture Guard®, Proflex® Profiles,
PolyPlank® LAM, PolyPlank® MDL, PolyPlank® PLK,

* Including Anti-Static and/or Flame Retardant additives;
Adhesive and/or Cohesive layers; Poly / Foil Laminations

CONTACTS: Please contact your Pregis products sales associate or customer service associate: (1-800-834-9441).

2. COMPOSITION / HAZARDOUS INGREDIENTS INFORMATION

CAS NUMBER	SUBSTANCE	PERCENT BY WEIGHT
	Polyethylene resin (1-Butene polymer with ethene, tris-nonylphenyl phosphite, polyethylene homopolymer, crystalline silica)	≥ 88.8 %
25087-34-7	Ethene/Butene Copolymer	
9002-88-4	Polyethylene Homopolymer	
Hydrocarbon Mixture	Foaming Agent Talc (Magnesium silicate)	≤ 5.0 % ≤ 3.9 %
Not Available	Hydrocerol	≤ 6.5 %
67701-33-1	Mono- and di-glycerides; glycerol mono stearate	≤ 1.5 %
61791-44-4	Ethoxylated Tallowalkylamines (Polyethylene, bis(2-hydroxyethyl)tallowamines, Tallowalkylamines, Ethoxylated tallow alkylamines)	≤ 1.1 %
Mixture	Antimony Trioxide/Halogenated Organic	≥ 10.0 % ≤ 18.0 %

OSHA REGULATORY STATUS: This material is not classified as hazardous under OSHA regulations. But this MSDS contains valuable information essential to the safe handling and use of the product. This MSDS should be retained and available for employees and other users of this product.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Odorless plastic foam in a variety of colors. Can burn in fire, releasing toxic vapors, gases, and fumes.

POTENTIAL HEALTH EFFECTS

EYE:	May cause slight irritation.
SKIN:	No hazard in normal industrial use. Sensitive individuals may experience dermatitis from anti-static or flame retardant additive if present.
INGESTION:	Ingestion unlikely, material physiologically inert.
INHALATION:	Inhalation at ambient temperatures unlikely except for dust from grinding, slitting, die cutting, etc. At elevated temperatures, fumes may cause irritation.
EFFECTS OF OVEREXPOSURE:	Inhalation of fumes from heated plastic may cause irritation of respiratory tract, chest discomfort, and/or dizziness. In rare cases, contact with sensitive individuals' skin may result in irritation or reddening of skin.
CARCINOGENICITY LISTINGS:	Crystalline silica: Classified 1 (Proven for human) by IARC, Classified 2 (Reasonably anticipated) by NTP Antimony trioxide: Classified 2B (Possibly carcinogenic for humans) by IARC. Release of these materials may occur in small quantities during processing of the product, but is not expected to present a hazard.

POTENTIAL ENVIRONMENTAL EFFECTS: The material should pose no significant hazard to the environment. See Section 12, "Ecological Information."

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4. FIRST AID MEASURES

EYE CONTACT: Flush eye with water for 15 minutes. Get medical attention if irritation persists.
SKIN CONTACT: Wash contaminated skin with mild soap and water. Individuals experiencing skin sensitivity should obtain medical advice.
INHALATION: If respiratory irritation occurs, remove affected personnel to fresh air. Obtain medical attention if irritation persists or is severe.
INGESTION: Not considered a likely route of entry. Swallowing small quantities will not cause harm.

5. FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES: Not established for product as a whole
EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water, foam
FIRE & EXPLOSION HAZARDS: Polyethylene is combustible. Pregis's polyethylene foam also contains some residual flammable blowing agent, which might accumulate in confined spaces to produce concentrations in the explosive range. Processes such as grinding could produce fine dust and flammable vapors. Both could be potential explosion hazards.
FIREFIGHTING EQUIPMENT: Wear full bunker gear, including a positive pressure self-contained breathing apparatus.
HAZARDOUS
DECOMPOSITION PRODUCTS: Temperatures above 480°F could cause product degradation potentially producing toxic vapors.

6. ACCIDENTAL RELEASE MEASURES

No special measures are necessary beyond good general housekeeping.

7. HANDLING AND STORAGE

HANDLING: Further processing of polyethylene foam products with any fabrication processes such as slitting, grinding, skiving, sawing, routing, or die cutting that cuts cells can release residual flammable blowing agent. A flammable concentration could accumulate if air is not properly circulated. All sources of ignition should be prevented in areas where foam is fabricated. Humidifiers or ionized air blowers can be used to reduce the possibility of static spark.
Grinding equipment and any bins or hoppers should be purged with a positive air flow to dissipate any build up of blowing agent gases. Monitoring systems should be in place to insure that a concentration of blowing agent does not accumulate during shutdowns or malfunctions.
For hot wire cutting or thermal welding air flow should be provided to adequately disperse potential blowing agent build up.

STORAGE: Always store polyethylene foam products in well-ventilated areas. Always keep foam products away from excessive heat and any sources of ignition such as sparks or flame. Never store foam in confined areas or sealed-off compartments. Foam scrap or fabricated parts for disposal should be stored and shipped in ventilated containers.

OTHER PRECAUTIONS: Whenever possible ship polyethylene foam products in ventilated trailers. When opening doors and unloading foam shipments, extinguish all possible sources of ignition such as matches, cigarettes, sparks, and lighters. Allow air circulation into the trailer for ten minutes after opening trailer doors before unloading foam. Control any vapor or dust emissions that may be generated by further processing of product.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION:	Local ventilation should be provided if product is further processed producing dust or fumes. General ventilation may also be used, but local ventilation is usually preferable. See also recommendation for ventilation in Section 7 to control potential release of flammable blowing agent.
RESPIRATORY PROTECTION:	Not normally required. If product is being further processed producing dust or fumes, local ventilation should be provided. Respiratory protection is normally only to be used as a temporary measure until proper ventilation can be installed.
EYE PROTECTION:	Not normally required, but is recommended if product is further processed.
SKIN PROTECTION:	Not normally required. Wearing gloves is consistent with good industrial safety / hygiene practice.
GENERAL HYGIENE CONSIDERATIONS:	There are no known health hazards associated with this material when used as recommended. The following general hygiene considerations are recognized as common, good industrial hygiene practices: <ul style="list-style-type: none">• Wash hands after use and before eating,• Avoid breathing dust, and• Wear safety glasses.
EXPOSURE GUIDELINES:	Polyethylene foam: Not established for product as a whole. Polyethylene: Nuisance dust TWA 10 mg/m ³ total (ACGIH), Nuisance dust TWA 3 mg/m ³ respirable (ACGIH), Nuisance dust PEL 15 mg/m ³ total (OSHA), Nuisance dust PEL 5 mg/m ³ respirable (OSHA) Crystalline Silica: 0.05 mg/m ³ TWA (OSHA, ACGIH) Isobutane: 800 ppm TWA (NIOSH) n-Butane: 800 ppm TWA (NIOSH, ACGIH) Hydrous magnesium silicate: 2 mg/m ³ TWA (NIOSH, ACGIH), 20 mppcf (millions of particles per cubic foot of air) PEL (OSHA), IDLH 1000 mg/m ³ (NIOSH) Antimony trioxide: 0.5 mg/m ³ TWA (ACGIH)

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Plastic foam in a variety of colors.
ODOR:	None
PHYSICAL STATE:	Solid
pH:	Not applicable
VAPOR PRESSURE:	Not applicable
VAPOR DENSITY:	Not applicable
BOILING POINT:	Not applicable
MELTING POINT:	220°F
SOFTENING POINT:	170°F
WATER SOLUBILITY:	Insoluble
SPECIFIC GRAVITY:	Not established for product as a whole. For polyethylene resin (major component) 0.87-1.05
AUTO-IGNITION TEMPERATURE:	Not established for product as a whole. For polyethylene resin (major component) 343°C (650°F)

10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.):	Stable
CONDITIONS TO AVOID:	Extreme heat
INCOMPATIBILITY:	Strong oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS:	Temperatures above 480°F could cause product degradation potentially producing toxic vapors including carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and/or alcohols.
HAZARDOUS POLYMERIZATION:	Will not occur

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11. TOXICOLOGICAL INFORMATION

TOXICITY: Not established for product as a whole. Polyethylene resin (main ingredient) not considered to be toxic to humans or animals. Rats inhaling polyethylene dust developed mild inflammatory changes in the lungs. Prolonged inhalation of thermal degradation products from polyethylene caused neurological effects in rats. Animal studies showed no adverse health effects on the digestive system when fed up to 20% polyethylene. No skin effects are expected from polymer contact. Subchronic (50 to 90 day) feeding studies conducted on rats, dogs, and swine showed no effects from dietary levels of 1 to 20% powdered and shredded polyethylene. IARC has listed polyethylene as a Group 3 substance (Not classifiable as to carcinogenicity to humans).

IRRITATION: Skin contact not normally a problem. Sensitive individuals may experience dermatitis from anti-static or flame retardant additive if present. Inhalation at ambient temperatures unlikely except for dust from grinding. At elevated temperatures, such as produced by hot cutting, fumes may cause respiratory or eye irritation.

CARCINOGENIC COMPONENTS: Crystalline silica (< 0.1%): IARC-classified 1 (Proven for human); NTP-Classified 2 (Reasonably anticipated) target organ is the lung; California Proposition 65-listed carcinogen (respirable). Antimony trioxide: IARC-Classified 2B (Possibly carcinogenic for humans), target organ is the lung. Release of these materials may occur in small quantities during processing of the product, but is not expected to present a hazard.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not established for product as a whole. For polyethylene resin (main ingredient) ecotoxicity is expected to be low and bioaccumulation is not expected to occur.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: If the material as supplied becomes a waste, dispose of in accordance with local, state, and federal laws and regulations. Contact your local or state environmental agency for specific rules.

RCRA INFORMATION: If the material as supplied becomes a waste, it does not meet the definition of a hazardous waste as defined under RCRA (40 CFR 261).

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION:	Not regulated
INTERNATIONAL SEA TRANSPORT / I.M.O.; I.M.D.G.:	Not regulated
INTERNATIONAL AIR TRANSPORT / I.A.T.A.; I.C.A.O.:	Not regulated
EUROPEAN ROAD & RAIL / A.D.R.; R.I.D.	Not regulated
CANADIAN TRANSPORT OF DANGEROUS GOODS:	Not regulated

15. REGULATORY INFORMATION

CERCLA 102A / 103:	None
TSCA 12(b):	Nonylphenol (a trivial component of polyethylene)
SARA III, Sec. 302	None
SARA III, Sec. 311 / 312:	Crystalline silica (68855-54-9), antimony trioxide (1309-64-4)
SARA III, Sec. 313	Antimony trioxide (Antimony compounds)

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16. OTHER INFORMATION

Information provided by sources external to our company and set forth herein is offered in good faith as accurate, but without guarantee. Safety precautions contained herein cannot anticipate all individual and unique situations. Conditions of use and suitability of the product for particular uses are beyond our control. All risks of use of the product are, therefore, assumed by the user, and we expressly disclaim all warranties of every kind and nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the product. Nothing herein is intended as recommendation for uses which infringe valid patents or as extension of license under valid patents. Appropriate warnings and safe handling procedures should be provided to users.

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DATE PREPARED: July 23, 2003
DATE REVISED: January 25, 2006
DATE PRINTED: January 25, 2006