A Safety Data Sheet is not legally required for this product under the OSHA Hazard Communication Standard (29 CFR 1910.1200). The following information is provided as a courtesy service to our customers.

Section 1: Identification

Product identifier

Trade 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 colorant additives; adhesive and/or cohesive layers and poly / foil laminations.

Synonym(s):

Preparation/Revision date: May 03, 2023

Relevant identified uses of the substance or mixture and uses advised against

Identified uses:

Uses advised against:

Details of the supplier of the safety data sheet

Manufacturer / Supplier

Company name: Pregis Innovative Packaging,

Address: 227 W. Monroe St., Suite 4150
Chicago, IL 60606 USA

E-mail ehs@pregis.com

Emergency telephone number **24-Hour Emergency Contact:**
Chemtrec: (800) 424-9300

Section 2: Hazards Identification

Classification of the substance or mixture Not regulated per OSHA Hazard Communication Standard 29 CFR 1910.1200.

This product conforms to the U.S. OSHA Hazard Communication Standard's definition of an "Article," i.e., "...a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more

than very small quantities, e.g., minute or trace amounts of a hazardous chemical , and does not pose a physical hazard or health risk to employees.

Label elements

Contains:
Hazard pictogram: None
Signal word:
Hazard statement:
Precautionary statements:
- Prevention:
- Response:
- Storage:
- Disposal:

Supplemental label information**:**

Other hazards

Hazard summary

Physical hazards:
Health hazards: Not classified for health hazards.
Environmental hazards:
Main symptoms:

Section 3: Composition / Information on Ingredients

This product conforms to the U.S. OSHA Hazard Communication Standard's definition of an "Article," i.e., "...a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical , and does not pose a physical hazard or health risk to employees." The following information is provided as a courtesy.

Chemical Name	Percent	CAS No.	Notes
Polyethylene resin	≥ 88		
Polyethylene Homopolymer		9002-88-4	
Hydrocarbon Foaming Agents	≤ 5		
Isobutane		75-28-5	
n-butane		106-97-8	
Talc (Magnesium silicate)	≤ 4	14807-96-6	
Foam Processing Aid, Monodiglycerides	≤ 2	67701-33-1	
Amide Anti-static Additive	≤ 5	Proprietary	

Composition comments:

Section 4: First Aid Measures

General Information

Description of first aid measures

Inhalation: If symptoms are experienced, move victim to fresh air, if symptoms persist, obtain medical attention.

Skin contact:

Eye contact:

Ingestion:

Notes to Physician:

Section 4: First Aid Measures (cont'd)

Most important symptoms and effects, both acute and delayed

Eye contact may clause slight irritation. Sensitive individuals may experience dermatitis from anti-static additives. Inhalation of processing fumes or dusts may cause upper respiratory.

Indication of any immediate medical attention and special treatment needed

Section 5: Fire Fighting Measures

General fire hazards

Extinguishing Media
Suitable extinguishing media:

Unsuitable extinguishing media:

Special hazards arising from the substance or mixture

producing toxic vapors including carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and/or alcohols.

Advice for firefighters
Special protective equipment for firefighters:
Special firefighting procedures: Not applicable
Special remarks on fire hazards:

Section 6: Accidental Release measures

Personal precautions, protective equipment and emergency procedures

Protective clothing is not required under normal conditions of intended use, however, the use of gloves and safety glasses is consistent with good manufacturing and hygienic practice.

Methods and materials for containing and

No special measures necessary beyond general housekeeping. Pick up

Section 7: Handling and Storage

Precautions for safe 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. Control any vapor or dust emissions that may be generated by further processing of product.

Conditions for safe storage,

including any incompatibilities

Always store polyethylene foam products in well-ventilated areas.
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.

Section 8: Exposure Controls / Personal Protection

United States. Occupational Exposure Limits

Component	CAS No.	Type	Value	Form
				-
Isobutane	75-28-5	NIOSH TWA	800 ppm	-
n-Butane	106-97-8	ACGIH TWA	800 ppm	-
n-Butane	106-97-8	NIOSH TWA	800 ppm	-
Hydrous magnesium silicate	14807-96-6	NIOSH TWA	2 mg/ m^3	-
Hydrous magnesium silicate	14807-96-6	ACGIH TWA	2 mg/ m^3	-
Hydrous magnesium silicate	14807-96-6	OSHA PEL	20 mppcf	-
Hydrous magnesium silicate	14807-96-6	NIOSH IDLH	1000 mg/ m^3	-

Appropriate engineering controls

Individual Protective Measures

General Information:

Eye/face protection:
Skin protection:
Respiratory protection:
Thermal hazards:

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Form	Solid plastic foam	**Explosive properties**	Not applicable
Color	Various colors	**Explosive limit**	Not applicable
Odor	Odorless	**Vapor pressure**	Not applicable
Odor threshold	Not applicable	**Vapor density**	Not applicable
pH	Not applicable	**Evaporation rate**	Not applicable
Melting/freezing point	220°F	**Relative density**	0.87-1.05 (polyethylene resin)
Boiling point, initial boiling point and boiling range	Not applicable	**Partition coefficient (n-octanol/water)**	Not applicable

Flash point	Not applicable	**Solubility (water)**	Insoluble in water
Auto-ignition temperature	343°C (polyethylene resin)	**Decomposition temperature**	> 480°F
Flammability (solid, gas)	Will burn but does not ignite readily	**Bulk density**	Not applicable
Flammability limit-lower%	Not applicable	**Viscosity**	Not applicable
Flammability limit-upper%	Not applicable	**VOC (weight %)**	Not applicable
Oxidizing properties	Not applicable	**Percent volatile**	Not applicable

Section 10: Stability and Reactivity

Reactivity

Chemical stability

Possibility of hazardous reactions

Conditions to avoid

Incompatible materials

Hazardous decompositions products

Section 11: Toxicological Information

General information on likely routes of exposure

Ingestion: No adverse effects known to be associated with ingestion of small amounts of this inert material. Ingestion of large quantities may result in gastrointestinal discomfort or distress.

Inhalation:

Skin contact:

Eye contact:

Symptoms:

11.1 Information on toxicological effects

Acute Toxicity: No data were identified for this 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.
Serious Eye Damage/Irritation:	No data were identified for this product as a whole. At elevated temperatures, such as produced by hot cutting, fumes may cause eye irritation.
Skin corrosion/Irritation:	No data were identified for this product as a whole. No skin effects are expected from polymer contact. Sensitive individuals may experience dermatitis from anit-static additives.
Respiratory/Skin Sensitization:	No data were identified for this product as a whole. Inhalation at ambient temperatures unlikely except for dust from grinding. At elevated temperatures, such as produced by hot cutting, fumes may cause respiratory irritation.
Germ Cell Mutagenicity:	No data were identified for this product.

Section 11: Toxicological Information (cont'd)

Carcinogenicity:	No data were identified for this product as a whole.
Reproductive Toxicity: Developmental Effects: STOT – Single Exposure: STOT – Repeated Exposure:	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. Not relevant based on physical form of the product.
Aspiration Hazard:	.

Conclusion/Summary

Section 12: Ecological Information

Ecotoxicity	No data were identified for this product as a whole. Polyethylene resin (main ingredient) ecotoxicity is expected to be low.

Persistence and degradability

Bioaccumulative potential

Mobility

Results of PBT and vPvB assessment

Other adverse effects

Conclusion/Summary

Section 13: Disposal Considerations

Waste treatment methods

Residual waste: Federal, State and Local regulations.
Contaminated packaging:
Disposal methods/information:

Section 14: Transport Information

UN Number Not applicable, not regulated as hazardous for transport.

UN proper shipping name Not applicable, not regulated as hazardous for transport.

Transport hazard class(es) Not applicable, not regulated as hazardous for transport.

Packing group Not applicable, not regulated as hazardous for transport.

Environmental hazards Not applicable, not regulated as hazardous for transport.

Special precautions for user Not applicable, not regulated as hazardous for transport.

Transport in bulk according to Annex II MARPOL73/78 and the IBC Code Not applicable, not regulated as hazardous for transport.

The transport regulation may vary based on the country of use. Check for the appropriate regulations in the country of transport or usage of this product.

Section 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

USA Federal Regulations

29 CFR 1910.1200 Hazard Communication Standard (HCS):
TSCA (TSCA 12b):
CERCLA 102A / 103:
SARA III, Sec. 302:
CALIFORNIA PROPOSITION 65:

Other Regulations

Section 16: Other Information

List of abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
IARC	International Agency for Research on Cancer
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
MARPOL	International Convention for the Prevention of Pollution from Ships
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration (United States)
PEL	Permissible Exposure Limit

Section 16: Other Information (cont'd)

PBT	Persistent, Bioaccumulative and Toxic
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
SDS	Safety Data Sheet
TSCA	Toxic Substances Control Act

TWA	Time Weighted Average
vPvB	Very Persistent and Very Bioaccumulative

SDS Revisions

Disclaimer

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.