# SAFETY DATA SHEET

Pregis
227 W. Monroe St. | Suite 4150
Chicago, IL 60606
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## 1. IDENTIFICATION

**Product identifier**

**Trade Name**

POLYETHYLENE FOAM PRODUCTS, natural plus colors*, Including Astro-Barrier™, Astro-Foam®, Astro-Foam® Renew™, Furniture Guard® Roll / Sheet products, PolyPlank® LAM, PolyPlank® MDL, PolyPlank® EXT, PolyPlank® SFT, PolyPlank® Renew™, Proflex® Profiles, Corner Keeper™, Edge Foam®.
* This MSDS pertains only to natural and/or pigmented products formulated without anti-static and/ or fire retardant additives, adhesive components, or other specialty additives.

**Recommended use of the chemical and restrictions on use**

**Identified Uses** Protective packaging – Flexible polyethylene foam

**Restrictions on use** No information available

**Manufacturer Identification**

Pregis Innovative Packaging, Inc.
227 W. Monroe St, Suite 4150
Chicago, IL 60606 USA

**Telephone** Phone: 877-692-6163

**E-mail** ehs@pregis.com

**Emergency telephone number**

**Emergency Phone Number** 1-800-424-9300

## 2. HAZARD IDENTIFICATION

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.

Label Elements: N/A
Hazard Summary: N/A
Main symptoms: Eye contact may clause slight irritation. In rare cases, sensitive individuals may experience irritation or reddening of skin. Inhalation of processing fumes or dusts may cause upper respiratory irritation.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | Percent (Wt.) | CAS No. |
|---|---|---|
| Polyethylene resin | 84 - 89% | N/A |
| Polyethylene Homopolymer | | 9002-88-4 |
| Hydrocarbon Foaming Agents | < 5 | N/A |
| Isobutane | | 75-28-5 |
| n-butane | | 106-97-8 |
| Talc (Magnesium silicate) | <4 | 14807-96-6 |
| Foam Processing Aid, Monodiglycerides | <2 | 67701-33-1 |
| Organic and/or inorganic colorants | <5 | Various |

**Composition comments:** Organic and/or inorganic colorants, which may include carbon black pigment which is thoroughly bound to the polymer matrix.

## 4. FIRST AID MEASURES

**Description of first aid measures**

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

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Get medical attention if irritation develops or symptoms persist.

**Skin contact** Wash skin with soap and water. Get medical attention if irritation develops or persists.

**Ingestion** If gastric irritation or discomfort persists seek medical advice.

## 5. FIRE-FIGHTING MEASURES

**General Fire Hazards** Flammability not established for product as a whole. 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.

**Suitable Extinguishing Media** Water, Foam, $CO_2$, and Dry Chemical. Use extinguishing media appropriate for surrounding material.

**Specific hazards arising from the chemical** 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.

**Special protective equipment for fire-fighters** Use positive-pressure, self-contained breathing apparatus. In its present form, this product offers no unusual fire and explosion hazards. Personnel/bystanders should be kept upwind of fire.

## 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.

**Accidental Release Measures:** Not Applicable.

**Methods for cleaning up** Pick up and transfer to properly labeled containers. Dispose of in accordance with local, state and federal regulations.

## 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**

**Storage Conditions** Always store polyethylene foam products in well- ventilated areas. Store between 50 – 110 F. 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. 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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**United States. Occupational Exposure Limit**

**Control Parameters**

**Exposure Limits**

| Component | CAS No. | Type | Value | Form |
|---|---|---|---|---|
| Nuisance dust | N/A | ACGIH TWA | 10 mg/m$^3$ | Total dust |
| Nuisance dust | N/A | ACGIH TWA | 3 mg/ m3 | Respirable |
| Nuisance dust | N/A | OSHA PEL | 15 mg/ m3 | Total dust |
| Nuisance dust | N/A | OSHA PEL | 5 mg/ m3 | Respirable |
| Isobutane | 75-28-5 | ACGIH TWA | 800 ppm | - |
| n-Butane | 106-97-8 | NIOSH TWA | 800 ppm | - |
| n-Butane | 106-97-8 | ACGIH TWA | 800 ppm | - |
| Hydrous magnesium silicate | 14807-96-6 | NIOSH TWA | 2 mg/ m3 | - |
| Hydrous magnesium silicate | 14807-96-6 | ACGIH TWA | 2 mg/ m3 | - |
| Hydrous magnesium silicate | 14807-96-6 | OSHA PEL | 20 mppcf | - |
| Hydrous magnesium silicate | 14807-96-6 | NIOSH IDLH | 1000 mg/ | - |

**Appropriate engineering controls**

**Engineering Controls** 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.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Use safety glasses.

**Skin and body protection** Wear protective gloves.

**Respiratory protection** If product is being further processed producing dust or fumes and adequate ventilation should be provided. In case of inadequate ventilation or risk of inhalation of dust or fumes, wear a suitable air purifying respirator with particle filter or dust mask.

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|---|---|
| **General hygiene considerations** | Wash hands after use and before eating, avoid breathing dust, and wear safety glasses. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Physical state** | Solid |
| **Appearance** | Plastic Foam |
| **Odor** | Odorless |
| **Color** | Various Colors |
| **Odor Threshold** | N/A |

| **Property** | **Values** |
|---|---|
| **pH** | N/A |
| **Melting / freezing point** | 220°F |
| **Boiling point / boiling range** | N/A |
| **Flash Point** | N/A |
| **Evaporation Rate** | N/A |
| **Flammability (solid, gas)** | N/A |
| **Flammability Limit in Air** | N/A |
| **Upper flammability limit** | N/A |
| **Lower flammability limit** | N/A |
| **Vapor pressure** | N/A |
| **Vapor density** | N/A |
| **Relative density** | 0.87-1.05 (polyethylene) |
| **Water Solubility** | Insoluble |
| **Solubility(ies)** | N/A |

**Partition coefficient: n-octanol/water** N/A

| | |
|---|---|
| **Autoignition temperature** | 343°C (polyethylene resin) |
| **Decomposition temperature** | >480°F |
| **Kinematic viscosity** | N/A |
| **VOC Content (%)** | N/A |

## 10. STABILITY AND REACTIVITY

| | |
|---|---|
| **Reactivity** | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| **Chemical stability** | Stable under normal conditions. |
| **Possibility of Hazardous Reactions** | None under normal processing. |

| | |
|---|---|
| **Hazardous Polymerization** | Hazardous polymerization does not occur. |
| **Conditions to avoid** | Do not store near heat, flame, strong oxidizing agents. |
| **Incompatible materials** | Strong oxidizers. |
| **Hazardous decomposition:** | 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. |

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

| | |
|---|---|
| **Inhalation** | Inhalation of fumes from heated plastic may cause irritation of respiratory tract, chest discomfort, and/or dizziness. Inhalation of dust may cause respiratory irritation. Polyethylene dust from grinding and pulverizing operations is considered nuisance dust. |
| **Eye contact** | May cause slight irritation. |
| **Skin contact** | In rare cases, contact with sensitive individuals' skin may result in irritation or reddening of skin. |
| **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. |
| **Additional Information:** | Eye contact may clause slight irritation. In rare cases, sensitive individuals may experience irritation or reddening of skin. Inhalation of processing fumes or dusts may cause upper respiratory irritation. |

## 12. ECOLOGICAL INFORMATION

This material is expected to present a low environmental risk either because use and disposal are unlikely to result in a significant release of components to the environment or because those components that may be released are expected to have insignificant environmental impact.

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

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|---|---|
| **Waste from residues/unused products** | Dispose as normal, non-hazardous, solid waste, in accordance with applicable Federal, State and Local regulations. The material should pose no significant hazard to the environment. This material is NOT classified as a Hazardous Material by RCRA. |

## 14. TRANSPORT INFORMATION

**DOT**

NOT REGULATED per U.S. DOT, IATA or IMO.

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. Pregis's transportation classifications are based on product formulation, packaging, Pregis policies and Pregis's understanding of applicable current regulations. Pregis does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling, or marking requirements. The original Pregis package is certified for U.S. ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

## 15. REGULATORY INFORMATION

| | |
|---|---|
| CERCLA 102A / 103: | None |
| SARA III, Sec. 302: | None |
| CALIFORNIA PROPOSITION 65: | No label required. |
| Other Regulations | All shipping mailer packaging and packaging components, manufactured in the United States by Pregis Innovative Packaging, Inc., comply with the several United States' enacted provisions of the Coalition of Northeast Governors ("CONEG") legislative model for the reduction of toxics in packaging and the California Toxics in Packaging Prevention Act. Pregis Innovative Packaging, Inc.'s manufacturing practices prohibit the intentional introduction of cadmium(Cd), hexavalent chromium(Cr +6), lead (Pb), or mercury (Hg) into its products' formulations. Further, the cumulative total of all such metals' incidental concentrations does not exceed 100 parts per million (ppm). |

**311/312 Hazard Categories:**

**Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - No Delayed Hazard - No Safety, health and environmental regulations/legislation specific for the substance or mixture**

### US Federal Regulations

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

## US State Regulations

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

This product does not contain any substances above threshold limits that are regulated by state right-to-know.

## 16. OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health hazards** 0 | **Flammability 1** | **Instability** 0 | **Physical and Chemical Properties** - None |
| **HMIS** | **Health hazards** 0 | **Flammability** 1 | **Physical hazards** 0 | **Personal Protection** None |

**Revision Date** December 13, 2024

**Revision Note** No information available

**Disclaimer:** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.