



## SAFETY DATA SHEET

*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 BUBBLE PRODUCTS**, formulated with Flame Retardant additives, Including Astro-Bubble® and Astro-Cell®.

Synonym(s): None known

Preparation/Revision date: 6 March 2015

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

Identified uses: Protective packaging

Uses advised against: None known

#### Details of the supplier of the safety data sheet

##### Manufacturer / Supplier

Company name: Pregis Innovative Packaging, Inc.

Address: 1650 Lake Cook Road, Suite 400  
Deerfield, IL 60015

Customer service: 877-692-6163

#### Emergency telephone number

For product and additional safety information:  
e-Mail: [gallen@pregis.com](mailto:gallen@pregis.com)

#### **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.

**SECTION 2: HAZARDS IDENTIFICATION (CONT'D)**

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:	None
Hazard pictogram:	None
Signal word:	None
Hazard statement:	None
Precautionary statements:	
- Prevention:	None
- Response:	None
- Storage:	None
- Disposal:	None
Supplemental label information:	None

**Other hazards** None

**Hazard summary**

Physical hazards:	Not classified for physical hazards.
Health hazards:	Not classified for health hazards.
Environmental hazards:	Not classified for hazards to the environment.
Main symptoms:	Inhalation of fumes from heated plastic may cause irritation of respiratory tract, chest discomfort, and dizziness. Sensitive individuals may experience dermatitis from flame retardant additive.

**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.

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS (CONT'D)**

Chemical Name	Percent	CAS No.	Notes
Polyethylene		9002-88-4	
Flame Retardant (1H-ISOINDOLE-1,3(2H)- DIONE,2,2''-(1,2-ETHANEDIYL)BIS[4,5,6,7-TETRABROMO])		32588-76-4	
Antimony Oxide		1309-64-4	
Additive Concentrates		25087-34-7	
		1317-65-3	
		68855-54-9	

**SECTION 4: FIRST AID MEASURES**
**General Information**

Show this Safety Data Sheet to the medical professional in attendance. If symptoms occur, follow first aid measures as appropriate.

**Description of first aid measures**

Inhalation:

If respiratory irritation occurs, remove affected personnel to fresh air. Obtain medical attention if irritation persists or is severe.

Skin contact:

Wash contaminated skin with mild soap and water. Individuals experiencing skin sensitivity should obtain medical advice.

Eye contact:

Rinse immediately with plenty of water, including under the eyelids. Get medical attention if irritation develops or symptoms persist

Ingestion:

If gastric irritation or discomfort persists seek medical advice.

Notes to Physician:

None specified

**Most important symptoms and effects, both acute and delayed**

Inhalation of fumes from heated plastic may cause irritation of respiratory tract, chest discomfort and dizziness. Sensitive individuals may experience dermatitis from flame retardant additive.

**Indication of any immediate medical attention and special treatment needed**

None known.

**SECTION 5: FIRE FIGHTING MEASURES****General fire hazards**

Polyethylene is combustible. Processes such as grinding could produce fine dust that could be a potential explosion hazard. As with any fire involving plastic, toxic fumes may be released.

**Extinguishing Media**

Suitable extinguishing media:

Water, Foam, Dry Chemical, Carbon Dioxide. Use extinguishing media appropriate for surrounding material.

Unsuitable extinguishing media:

None known.

**Special hazards arising from the substance or mixture**

None known.

**Advice for firefighters**

Special protective equipment for firefighters:

As with any fire involving plastic, toxic fumes may be released. Use self-contained breathing apparatus.

Special firefighting procedures:

Not applicable.

Special remarks on fire hazards:

Polyethylene is combustible. Processes such as grinding could produce fine dust that could be a potential explosion hazard.

**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 cleaning up**

No special measures necessary beyond general housekeeping.

**SECTION 7: HANDLING AND STORAGE****Precautions for safe handling**

Control any vapor or dust emissions from further processing of product as described in Section 8.

**Conditions for safe storage, including any incompatibilities**

Avoid contact with strong oxidizers.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION****United States. Occupational Exposure Limits**

None established for primary ingredients.

Component	CAS No.	Type	Value	Form
Antimony Trioxide	N/A	ACGIH TWA	.5 mg/m <sup>3</sup>	-

**Appropriate 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 Protective Measures**

## General Information:

The following general hygiene considerations are recognized as common, good industrial hygiene practices. Wash hands after use and before eating, avoid breathing dust, and wear safety glasses.

## Eye/face protection:

Not normally required, but may be recommended if product is further processed.

## Skin protection:

Not normally required. Could be used by individuals experiencing sensitivity.

## 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.

## Thermal hazards:

None known

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**
**Information on basic physical and chemical properties**

<b>Form</b>	Plastic sheet with air bubbles	<b>Explosive properties</b>	No data available
<b>Color</b>	Various colors	<b>Explosive limit</b>	No data available
<b>Odor</b>	Negligible	<b>Vapor pressure</b>	Not applicable
<b>Odor threshold</b>	No data available	<b>Vapor density</b>	Not applicable
<b>pH</b>	Not No data available	<b>Evaporation rate</b>	No data available
<b>Melting/freezing point</b>	Not established for product	<b>Relative density</b>	Not applicable
<b>Boiling point, initial boiling point and boiling range</b>	Not applicable	<b>Partition coefficient (n-octanol/water)</b>	No data available
<b>Flash point</b>	Not applicable	<b>Solubility (water)</b>	No data available.
<b>Auto-ignition temperature</b>	No data available	<b>Decomposition temperature</b>	480 °F
<b>Flammability (solid, gas)</b>	No data available	<b>Bulk density</b>	No data available
<b>Flammability limit-lower%</b>	Not applicable	<b>Viscosity</b>	No data available
<b>Flammability limit-upper%</b>	Not applicable	<b>VOC (weight %)</b>	No data available
<b>Oxidizing properties</b>	Not applicable	<b>Percent volatile</b>	No data available

**SECTION 10: STABILITY AND REACTIVITY**

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization will not occur.
<b>Conditions to avoid</b>	Avoid contact with strong oxidizers.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decompositions products</b>	Temperatures above 480 degrees F could cause product degradation potentially producing irritating vapors. Oxides of nitrogen and carbon; antimony oxide; hydrogen bromide.

**SECTION 11: TOXICOLOGICAL INFORMATION****General information on likely routes of exposure**

Ingestion:	Ingestion unlikely; material physiologically inert.
Inhalation:	Inhalation at ambient temperatures unlikely except for dust from grinding. At elevated temperatures, such as produced by hot cutting, fumes may cause irritation.
Skin contact:	Skin contact not normally a problem. Sensitive individuals may experience dermatitis from flame retardant additive.
Eye contact:	No data available.
Symptoms:	Inhalation of fumes from heated plastic may cause irritation of respiratory tract, chest discomfort, and dizziness. Skin contact may cause irritation or reddening of skin in sensitive individuals.

**11.1 Information on toxicological effects**

Acute Toxicity:	No data were identified.
Serious Eye Damage/Irritation:	No data were identified for this product.
Skin corrosion/Irritation:	Skin contact not normally a problem. Sensitive individuals may experience dermatitis from flame retardant additive.
Respiratory/Skin Sensitization:	No data were identified for this product
Germ Cell Mutagenicity:	No data were identified for this product.
Carcinogenicity:	Some forms of antimony oxide possibly carcinogenic by IARC. Antimony oxide is listed by the State of California as a chemical known to cause cancer.
Reproductive Toxicity:	No data were identified for this product.
Developmental Effects:	No data were identified for this product.
STOT – Single Exposure:	No data were identified for this product.
STOT – Repeated Exposure:	No data were identified for this product.
Aspiration Hazard:	Not relevant based on physical form of the product.

**Conclusion/Summary**

Inhalation of fumes from heated plastic may cause irritation of respiratory tract, chest discomfort, and dizziness. Skin contact may cause irritation or reddening of skin in sensitive individuals.

**SECTION 12: ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	No data were identified for this product.
<b>Persistence and degradability</b>	No data were identified for this product.
<b>Bioaccumulative potential</b>	No data were identified for this product.
<b>Mobility</b>	No data available
<b>Results of PBT and vPvB assessment</b>	No data available.
<b>Other adverse effects</b>	None known
<b>Conclusion/Summary</b>	This product is not classified as hazardous to the environment..

**SECTION 13: DISPOSAL CONSIDERATIONS****Waste treatment methods**

Residual waste:	Dispose of in accordance with Federal, State and Local regulations.
Contaminated packaging:	Dispose of in accordance with Federal, State and Local regulations.
Disposal methods/information:	Dispose as normal, non-hazardous, solid waste, in accordance with applicable Federal, State and Local regulations.

**SECTION 14: TRANSPORT INFORMATION**

<b>UN Number</b>	Not applicable, not regulated as hazardous for transport.
<b>UN proper shipping name</b>	Not applicable, not regulated as hazardous for transport.
<b>Transport hazard class(es)</b>	Not applicable, not regulated as hazardous for transport.
<b>Packing group</b>	Not applicable, not regulated as hazardous for transport.
<b>Environmental hazards</b>	Not applicable, not regulated as hazardous for transport.
<b>Special precautions for user</b>	Not applicable, not regulated as hazardous for transport.



**SECTION 14: TRANSPORT INFORMATION (CONT'D)**

**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):

Not regulated

SARA III, Sec. 313

The Flame Retardant Product has an additive on this list.

**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).

**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

**POLYETHYLENE BUBBLE PRODUCTS**

Preparation Date: 6 March 2015

**SECTION 16: OTHER INFORMATION (CONT'D)**

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
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**

SDS prepared on 6 March 2015.

**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.