



## 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: **AirSpeed® 5000 & 5000 Renew**  
Synonym(s): Polyethylene "Air Pillow" Film  
Preparation/Revision date: 26 May 2015

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

Identified uses: Protective packaging - Inflatable cushioning product  
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: 1-877-692-6163

#### 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.

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.

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

**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 processing fumes may cause upper respiratory irritation. Polyethylene dust from grinding/pulverizing operations is considered nuisance dust.

**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)**

<b>Chemical Name</b>	<b>Percent</b>	<b>CAS No.</b>	<b>Notes</b>
Ethylene homopolymer	N/A	9002-88-4	
Ethylene-norbornene copolymer	N/A	26007-43-2	
Zinc oxide	N/A	1314-13-2	#
Talc	N/A	14807-96-6	#
Oleamid	N/A	301-02-0	
2-Butoxyethanol	N/A	111-76-2	#

# - Substance has Occupational Exposure Limits

#### **SECTION 4: FIRST AID MEASURES**

##### **General Information**

Show this Safety Data Sheet to the medical professional in attendance. Adverse health effects are not anticipated with use of this product as intended. If symptoms occur, follow first aid measures as appropriate.

##### **Description of first aid measures**

Inhalation:

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

Skin contact:

Get medical attention if irritation develops or persists. If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissue and polymer. Do not attempt to peel polymer from skin. Get medical attention immediately.

Eye contact:

Wash eyes with clean low-pressure water. If irritation persists, seek medical advice.

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 processing fumes may cause upper respiratory irritation. Polyethylene dust from grinding / pulverizing operations is considered nuisance dust. No known chronic health effects. No known health conditions are aggravated by exposure to this material under normal conditions of intended use.

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

None known

#### **SECTION 5: FIRE FIGHTING MEASURES**

**General fire hazards**

This material will burn if exposed to open ignition source. Polymer will burn but does not ignite readily. Fire gives rise to thick, black, toxic smoke composed primarily of oxides of carbon.

**Extinguishing Media**

Suitable extinguishing media:

Use extinguishing media appropriate for surrounding material. **SMALL FIRE:** Use DRY chemicals, CO<sub>2</sub>, or water spray. **LARGE FIRE:** Use liberal amounts of water spray.

Unsuitable extinguishing media:

None known

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

Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed.

**Advice for firefighters**

Special protective equipment for firefighters:

Wear a NIOSH-approved positive pressure self-contained breathing apparatus and firefighter turnout gear.

Special firefighting procedures:

Use flooding quantities of water until well after fire is out.

Special remarks on fire hazards:

Dust may form explosive mixtures with air.

**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. Pick up and retaining material for recycling or disposal. Do not flush spilled material to sewer or the environment.

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

Keep material off walking surfaces, materials may create slipping hazard. Polymer dust generated by aggressive handling methods may form explosive mixtures with air. Avoid accumulation of dust in enclosed space. Use in well-ventilated area. Ground and bond equipment to prevent electrostatic charge when transferring product.

**SECTION 7: HANDLING AND STORAGE (CONT'D)**

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

Keep container dry. Store away from extreme heat and away from strong oxidizing agents. Keep containers closed to prevent contamination.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**United States. Occupational Exposure Limits:**

Component	CAS No.	Type	Value	Form
Nuisance dust	N/A	OSHA PEL-TWA	5 mg/m <sup>3</sup>	Respirable dust
		OSHA PEL-TWA	15 mg/ m <sup>3</sup>	Total dust
		ACGIH TLV-TWA	3 mg/ m <sup>3</sup>	Respirable dust
		ACGIH TLV-TWA	10 mg/ m <sup>3</sup>	Total dust
Ethylene homopolymer	9002-88-4	N/A	N/A	N/A
Ethylene-norbornene copolymer	26007-43-2	N/A	N/A	N/A
Zinc oxide	1314-13-2	OSHA PEL-TWA	15 mg/ m <sup>3</sup>	Total dust
		OSHA PEL-TWA	5 mg/ m <sup>3</sup>	Respirable fraction
		OSHA PEL-TWA	5 mg/ m <sup>3</sup>	Fume
		OSHA STEL	10 mg/ m <sup>3</sup>	Fume
		ACGIH TLV-TWA	2 mg/ m <sup>3</sup>	Respirable fraction
		ACGIH STEL	10 mg/ m <sup>3</sup>	Respirable fraction
		NIOSH TWA	5 mg/ m <sup>3</sup>	Dust and fume
		NIOSH STEL	10 mg/ m <sup>3</sup>	Fume
		NIOSH Ceiling	15 mg/ m <sup>3</sup>	Dust
		NIOSH IDLH	500 mg/ m <sup>3</sup>	N/A
Talc	14807-96-6	OSHA PEL-TWA	20 mppcf	<1% quartz
		ACGIH TLV-TWA	2 mg/ m <sup>3</sup>	No asbestos and <1% crystalline silica, respirable fraction
		NIOSH TWA	2 mg/ m <sup>3</sup>	<1% quartz, respirable dust
Oleamid	301-02-0	NIOSH IDLH	1000 mg/ m <sup>3</sup>	<1% quartz
		N/A	N/A	N/A

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT'D)**

111-76-2	OSHA PEL-TWA	50 ppm	N/A
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2-Butoxyethanol	(240 mg/ m <sup>3</sup> )		
ACGIH TLV-TWA	20 ppm		N/A
NIOSH TWA	5 ppm		N/A
	(24 mg/ m <sup>3</sup> )		
NIOSH IDLH	700 ppm		N/A

### Appropriate engineering controls

If user operations generate dust, fumes or mist, use ventilation to maintain ambient airborne contaminants below recommended occupational exposure limits.

### Individual Protective Measures

#### General Information:

Personal protective equipment should be chosen according to applicable standards and in consultation with the supplier of the personal protective equipment. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### Eye/face protection:

Wear safety glasses.

#### Skin protection:

Protective clothing such as long sleeves or a lab coat should be worn. When handling heated material, also be sure to use heat-resistant gloves, boots and face protection.

#### Respiratory protection:

Appropriate respiratory protection where atmosphere exceeds occupational exposure limits.

#### Thermal hazards:

If possibility of contact with molten material exists, appropriate heat-resistant garments should be worn.

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

<b>Form</b>	Solid flexible film	<b>Explosive properties</b>	Not applicable
<b>Color</b>	Clear, translucent, or cloudy	<b>Explosive limit</b>	Not applicable
<b>Odor</b>	No data available	<b>Vapor pressure</b>	Not applicable
<b>Odor threshold</b>	Not applicable	<b>Vapor density</b>	Not applicable
<b>pH</b>	Not applicable	<b>Evaporation rate</b>	Not applicable
<b>Melting/freezing point</b>	266°F	<b>Relative density</b>	~0.92-0.98
<b>Boiling point, initial boiling point and boiling range</b>	Not applicable	<b>Partition coefficient (n-octanol/water)</b>	Not applicable
<b>Flash point</b>	Not applicable	<b>Solubility (water)</b>	Insoluble in water
<b>Auto-ignition temperature</b>	Not applicable	<b>Decomposition temperature</b>	No data available.
<b>Flammability (solid, gas)</b>	Will burn but does not ignite readily	<b>Bulk density</b>	Not applicable
<b>Flammability limit-lower%</b>	Not applicable	<b>Viscosity</b>	Not applicable
<b>Flammability limit-upper%</b>	Not applicable	<b>VOC (weight %)</b>	Not applicable
<b>Oxidizing properties</b>	Not applicable	<b>Percent volatile</b>	Not applicable

**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, excessive heat, sparks or open flame.
<b>Incompatible materials</b>	Material may be softened by some hydrocarbons. Reacts with fluorine gas.
<b>Hazardous decompositions products</b>	Under normal conditions, this material will not decompose to form hazardous products. In case of fire, Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed.

**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 polymer material. Ingestion of large quantities may result in gastrointestinal discomfort or distress.
Inhalation:	Adverse health effects due to inhalation are not anticipated under normal conditions of intended use. Fumes from overheating or combustion of polymer may cause respiratory irritation. Inhalation of dust may cause respiratory irritation. Polyethylene dust from grinding and pulverizing operations is considered nuisance dust.
Skin contact:	Adverse health effects due to skin contact are not anticipated under normal conditions of intended use. Contact with molten polymer product may cause burns.
Eye contact:	Adverse health effects due to eye contact are not anticipated under normal conditions of intended use.
Symptoms:	No adverse health effects are anticipated under normal conditions of intended use.

**11.1 Information on toxicological effects**

Acute Toxicity:	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.
Skin corrosion/Irritation:	No skin effects are expected from polyethylene contact.
Respiratory/Skin Sensitization:	No skin effects are expected from polyethylene contact.
Germ Cell Mutagenicity:	No data were identified for this product.
Carcinogenicity:	IARC has listed polyethylene as a Group 3 substance (unclassifiable or probably non-carcinogenic).
Reproductive Toxicity:	No reproductive or developmental effects are expected.
Developmental Effects:	No reproductive or developmental effects are expected.
STOT – Single Exposure:	No data were identified for this product.
STOT – Repeated Exposure:	Subchronic, 50-90 day, feeding studies conducted on rats, dogs and swine showed no effects from dietary levels of 1 to 20% powdered and shredded polyethylene.
Aspiration Hazard:	Not relevant based on physical form of the product.



**SECTION 11: TOXICOLOGICAL INFORMATION (CONT'D)**

**Conclusion/Summary** This product is not expected to produce toxic effects.

**SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** Ecotoxicity is expected to be low based on the low water solubility of polymers. Materials can be harmful to birds and fish if ingested.

**Persistence and degradability** No data available.

**Bioaccumulative potential** Not expected to occur.

**Mobility** No data available.

**Results of PBT and vPvB assessment** No data available.

**Other adverse effects** None known.

**Conclusion/Summary** This product is not classified as hazardous to the environment.

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

**Residual waste:** Dispose as normal, non-hazardous, solid waste, in accordance with applicable Federal, State and Local regulations.

**Contaminated packaging:** Dispose as normal, non-hazardous, solid waste, in accordance with applicable Federal, State and Local regulations.

**Disposal methods/information:** This material is NOT classified as a Hazardous Material by RCRA. Dispose as normal, non-hazardous, solid waste, in accordance with applicable Federal, State and Local regulations.

**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.

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

<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.
<b>Transport in bulk according to Annex II MARPOL73/78 and the IBC Code</b>	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
California Proposition 65:	No warning needed
TSCA:	Exempt/Compliant
CERCLA:	No reportable quantities
SARA Title III – 311/312:	No components present subject to the reporting requirements.
SARA 313:	This product contains no “toxic chemicals” above threshold levels
Clean Air Act:	2-Butoxyethanol CAS: 111-76-2

**USA State Regulations**

Massachusetts – Right-to-Know:	Zinc oxide CAS: 1314-13-2; Talc CAS: 14807-96-6; 2-Butoxyethanol CAS: 111-76-2
New Jersey – Right-to-Know:	Zinc oxide CAS: 1314-13-2; Talc CAS: 14807-96-6; 2-Butoxyethanol CAS: 111-76-2

**SECTION 15: REGULATORY INFORMATION (CONT'D)**

Pennsylvania – Right-to-Know:

Zinc oxide CAS: 1314-13-2; Talc CAS: 14807-96-6; 2-Butoxyethanol CAS: 111-76-2

**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 National Conference of Industrial Hygienists
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
IARC	International Agency for Research on Cancer
IDLH	Immediately Dangerous to Life or Health
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
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Safety and Health Administration (United States)
PEL	Permissible Exposure Limit
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible Exposure Limits
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
SDS	Safety Data Sheet
STEL	Short-Term Exposure Limit
STOT	Specific Target Organ Toxicity
TLV	Threshold Limit Value

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

TSCA	Toxic Substances Control Act
TWA	Time-Weighted Average
UN	United Nations
vPvB	Very Persistent and Very Bioaccumulative

**SDS Revisions** SDS revised on 26 May 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.