



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® HC, HC Renew & HC Versa**
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

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)

Chemical Name	Percent	CAS No.	Notes
Ethylene homopolymer	N/A	9002-88-4	
Ethylene-norbornene copolymer	N/A	26007-43-2	
Ethylene-1-octene copolymer	N/A	26221-73-8	
Nylon 6:66	N/A	24993-04-2	
Maleic anhydride	N/A	108-31-6	#
Zinc oxide	N/A	1314-13-2	#
Talc	N/A	14807-96-6	#
Oleamid	N/A	301-02-0	
N,N-Di(2-hydroxyethyl)lauramide	N/A	120-40-1	
Diatomaceous Earth	N/A	698855-54-9	
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

SECTION 4: FIRST AID MEASURES (CONT'D)**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, CO₂, 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.

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 ³	Respirable dust
		OSHA PEL-TWA	15 mg/ m ³	Total dust
		ACGIH TLV-TWA	3 mg/ m ³	Respirable dust
		ACGIH TLV-TWA	10 mg/ m ³	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
Ethylene-1-octene copolymer	26221-73-8	N/A	N/A	N/A
Nylon 6:66	24993-04-2	N/A	N/A	N/A
Maleic anhydride	108-31-6	OSHA PEL-TWA	0.25 ppm (1 mg/m ³)	N/A
		ACGIH TLV-TWA	0.01 mg/m ³	Inhalable fraction & vapor

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

Zinc oxide	1314-13-2	OSHA PEL-TWA	15 mg/ m ³	Total dust
		OSHA PEL-TWA	5 mg/ m ³	Respirable fraction
		OSHA PEL-TWA	5 mg/ m ³	Fume
		OSHA STEL	10 mg/ m ³	Fume
		ACGIH TLV-TWA	2 mg/ m ³	Respirable fraction
		ACGIH STEL	10 mg/ m ³	Respirable fraction
		NIOSH TWA	5 mg/ m ³	Dust and fume
		NIOSH STEL	10 mg/ m ³	Fume
		NIOSH Ceiling	15 mg/ m ³	Dust
		NIOSH IDLH	500 mg/ m ³	N/A
		Talc	14807-96-6	OSHA PEL-TWA
ACGIH TLV-TWA	2 mg/ m ³			No asbestos and <1% crystalline silica, respirable fraction
NIOSH TWA	2 mg/ m ³			<1% quartz, respirable dust
Oleamid	301-02-0	NIOSH IDLH	1000 mg/ m ³	<1% quartz
		N/A	N/A	N/A
N,N-Di(2-hydroxyethyl) lauramide	120-40-1	N/A	N/A	N/A
Diatomaceous Earth	698855-54-9	N/A	N/A	N/A
	698855-54-9	N/A	N/A	N/A
2-Butoxyethanol	111-76-2	OSHA PEL-TWA	50 ppm (240 mg/ m ³)	N/A
		ACGIH TLV-TWA	20 ppm	N/A
		NIOSH TWA	5 ppm (24 mg/ m ³)	N/A
		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

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

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

Form	Solid flexible film	Explosive properties	Not applicable
Color	Clear, translucent, or cloudy	Explosive limit	Not applicable
Odor	No data available	Vapor pressure	Not applicable
Odor threshold	Not applicable	Vapor density	Not applicable
pH	Not applicable	Evaporation rate	Not applicable
Melting/freezing point	266°F	Relative density	~0.92-0.98
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	Not applicable	Decomposition temperature	No data available.
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	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	Avoid contact with strong oxidizers, excessive heat, sparks or open flame.
Incompatible materials	Material may be softened by some hydrocarbons. Reacts with fluorine gas.
Hazardous decompositions products	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**AirSpeed® HC, HC Renew & HC Versa**

Revised Date: 26 May 2015

SECTION 11: TOXICOLOGICAL INFORMATION (CONT'D)

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.
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.
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):

Not regulated

California Proposition 65:

No warning needed

TSCA:

Exempt/Compliant

CERCLA:

Maleic anhydride CAS: 108-31-6 RQ 5,000 lbs

SARA Title III – 311/312:

No components present subject to the reporting requirements.

SARA 313:

Maleic anhydride CAS: 108-31-6

Clean Air Act:

2-Butoxyethanol CAS: 111-76-2; Maleic anhydride CAS: 108-31-6

Clean Water Act:

Maleic anhydride CAS: 108-31-6

USA State Regulations

Massachusetts – Right-to-Know:

Zinc oxide CAS: 1314-13-2; Talc CAS: 14807-96-6; 2-Butoxyethanol CAS: 111-76-2; Maleic anhydride CAS: 108-31-6

New Jersey – Right-to-Know:

Zinc oxide CAS: 1314-13-2; Talc CAS: 14807-96-6; 2-Butoxyethanol CAS: 111-76-2; Maleic anhydride CAS: 108-31-6

Pennsylvania – Right-to-Know:

Zinc oxide CAS: 1314-13-2; Talc CAS: 14807-96-6; 2-Butoxyethanol CAS: 111-76-2; Maleic anhydride CAS: 108-31-6

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
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.