



INNOVATIONS IN PACKAGING

H2/BL

Safety Data Sheet

According to OSHA HCS 2012
Date of issue: 06/22/15

Revision date: 06/26/15

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Natural, unpigmented mixture
Product name : H2/BL

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

Use of the substance/mixture : Gas, aroma, flavor barrier packaging. Vertical form/fill/seal machines. Bag printing and converting.

1.3. Details of the supplier of the safety data sheet

General Films, Inc.
645 S. High St.
Covington, Ohio 45318
Phone: 937.473.2051
Fax: 937.473.2403

1.4. Emergency telephone number

Emergency number : 1.800.543.3089

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Not Classified.

2.2. Label elements

G HS-US labeling

No labeling applicable.

2.3. Other hazards

If material is finely ground, dust may form explosive mixtures with air. At process temperatures irritating fumes may be produced. Molten polymer may cause thermal burns. The material can accumulate static charge and can therefore cause electrical ignition. While trace amounts of crystalline silica/talc may be present, the nature and amount would preclude any hazard.

3.1. Unknown acute toxicity (GHS-US)

No data available.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable.

3.2. Mixture

Crystalline silica was found to be a Group 1 known human carcinogen in a recent study by IARC. Risk of exposure is decreased when product is encapsulated. While trace amounts of talc may be present, the nature and amount would preclude any hazard.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissue. Do not attempt to peel material from skin. Obtain immediate emergency medical attention if burn is deep or extensive.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream. The application of high velocity water will only spread the burning surface layer. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. 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. When fighting fire take precautionary measures with polyolefin dust particles in the atmosphere that are combustible and may be explosive. Avoid sparks, heat, and open flame.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. The material will burn although it is not easily ignited. Avoid generating dust if material is ground up finely, at risk of a potential dust explosion.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel. Avoid tripping hazard.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if film enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, pick up into clean, dry containers. Store away from other materials.
All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices. Reclaim where possible.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Spilled material can make walking hazardous. Keep away from sources of ignition.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep in the original container in a cool, dry, well ventilated place away from sunlight: Keep container closed when not in use. Use good housekeeping practice during storage, handling and transferring. Take measures to prevent buildup of electrostatic charge.
Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use. Use good personal hygiene practices. Ventilate area to prevent accumulation of dust and fumes.

8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: If film ground into dust, wear appropriate respirator in compliance with OSHA Subpart I (29 CFR 1910.134).
Other information	: Do not eat, drink or smoke during use

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Film
Color	: Colorless
Odor	: Faint, mild hydrocarbon odor.
Odor threshold	: No data available
pH	: Not Applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point range	: 104 °C - 191 °C
Boiling point	: Not Applicable
Flash point	: Not Applicable
Auto-ignition temperature	: >400 °C
Decomposition temperature	: > 300 °C
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: ~ 0.90 - 0.98
Water Solubility	: Negligible
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Does not react with air, water or other common materials.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous decomposition of products is not expected under normal conditions. Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Avoid contact with excessive heat, oxidizers, sparks or open flame.

10.5. Incompatible materials

Strong acids. Strong bases. Some materials may be softened by hydrocarbons.

10.6. Hazardous decomposition products

Carbon monoxide, Carbon dioxide, water vapor, oligomers, waxes, and other hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects:	: This product contains Polymerized Olefins which, during thermal processing, can release vapors and gases which are irritating to the mucous membranes of the eyes, mouth, throat and lungs. Avoid prolonged exposure to avoid the risk of pulmonary edema. Inhalation may cause discomfort or irritation to the respiratory tract and nasal passages. May be irritating to eyes and skin. . Prolonged and repeated inhalation of crystalline silica containing dust in excess of appropriate exposure limits may cause silicosis, a lung disease. This would only be a risk if film is finely ground into dust, which is not its intended use.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available.

12.2. Persistence and degradability

This material is not expected to be readily biodegradable.

12.3. Bioaccumulative potential

Does not bioaccumulate.

12.4. Mobility in soil

This product is insoluble and floats in water.

12.5. Other adverse effects

Effect on ozone layer	: No additional information available.
Effect on the global warming	: No known ecological damage caused by this product.
Other information	: Avoid release to the environment. May be a choking hazard to aquatic organisms if material released into water.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not attempt to dispose by uncontrolled incineration.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

ADR

Transport document description.

Transport by sea

No additional information available.

Air transport

No additional information available.

SECTION 15: Regulatory information

15.1. US Federal regulations

Ongoing occupational hygiene, medical surveillance programs, site emission or spill reporting may be required by Federal or State regulations. Check for applicable regulations.

15.2. International Regulations

No additional information available.

EU-Regulations

No additional information available.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not Classified.

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

15.2.2. National regulations

No additional information available.

SECTION 16: Other information

Revision date : 06/22/2015

Other information : None.

SDS US

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product