Polyurethane/Foam

SAFETY DATA SHEET

Section 1 - CHEMICAL, PRODUCT AND COMPANY IDENTIFICATION

Supplier Information:
American Excelsior Company
850 Avenue H East
Arlington, TX 76011
Office Phone #: (817) 385-3500

Chemical Name: Polyurethane
SDS Origination Date: 05-12-15
Synonyms: Polyurethane Foam
Last Revision Date: 05-12-15
Internal Product Codes:
Product Use: Packaging

Section 2 - HAZARDS IDENTIFICATION

Product Overview:
Product is Polyurethane foam used for packaging. It is solid open-cellular foam. Not know to contain any hazardous materials. Dusts may cause irritation to eyes and respiratory tract. Dusts in air may pose an explosive hazard. Combustible solid, once ignited will burn with rapid flame spread producing intense heat, dense smoke and toxic fumes (primarily oxides of carbon and nitrogen).

GHS LABEL: !
Signal word: WARNING

Primary Health Hazard(s):
The primary health hazards posed by this product are thought to be due to exposure to dusts.

Potential Health Effects:

- Skin Contact: Rubbing may cause mechanical irritation. Skin absorption not expected to be significant under normal use of product.
- Eye Contact: Dust may cause mechanical irritation.
- Inhalation: Dusts may cause irritation to the respiratory tract. When heated to decomposition, fumes are toxic.
- Ingestion: Essentially non-toxic.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>% Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyurethane</td>
<td>N/A</td>
<td>≈100.0</td>
</tr>
</tbody>
</table>
### Section 4 - FIRST AID MEASURES

**Eyes:** May cause mechanical irritation. Open eyelids and hold back while flushing with water for at least 15 minutes. Seek medical attention.

**Skin:** No special treatment required. May cause mechanical irritation. Vacuum or brush dusts from skin.

**Ingestion:** No special treatment required.

**Inhalation:** Remove victim to fresh air. If victim has stopped breathing, administer artificial respiration and seek immediate medical attention.

### Section 5 - FIRE FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Method Used</td>
<td>N/A</td>
</tr>
<tr>
<td>Upper Flammable Limit (UFL)</td>
<td>N/A</td>
</tr>
<tr>
<td>Lower Flammable Limit (LFL)</td>
<td>N/A</td>
</tr>
<tr>
<td>Auto Ignition</td>
<td>N/A</td>
</tr>
<tr>
<td>Flammability Classification</td>
<td>N/A</td>
</tr>
<tr>
<td>Rate of Burning</td>
<td>Moderate to rapid</td>
</tr>
</tbody>
</table>

**General Fire Hazards:**
Product will ignite upon exposure to ignition source causing intense heat and dense smoke with toxic gases (primarily oxides of carbon and nitrogen). Burning foam may melt into pools or droplets of burning liquid. Foam may smolder and reignite. Foam dusts can produce potentially explosive atmospheres. Treat this material as a combustible solid.

**Extinguishing Media:**
Water, foam, dry chemical, carbon dioxide.

**Fire Fighting Equipment/Instructions:**
Fire fighters should wear NIOSH approved full-face positive pressure self contained breathing apparatus and impervious protective clothing.

### Section 6 - ACCIDENTAL RELEASE MEASURES

**Containment Procedures:** Pick-up or sweep large pieces of material for recycling or disposal. Sweep or vacuum dusts for disposal avoiding generating static discharge. Larger pieces of this material are recyclable. Material not collected for recycling is to be disposed of a non-hazardous waste according to local, state, and federal regulations.
### Section 7 - HANDLING AND STORAGE

**Recommended Storage Methods:**

Storage areas should be protected by a sprinkler system meeting insurance, NFPA and/or local codes. Avoid elevated storage temperatures. Keep away from open flames, burning cigarettes, space heaters, naked lights, exposed wiring, or other ignition sources. Urethane foam products are combustible and will burn rapidly, consume oxygen and produce toxic gases (primarily oxides of carbon and nitrogen).

Maintain good housekeeping practices. Do not allow foam scrap of dust to accumulate in the workplace or in equipment.

### Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines:**

A. **General Product Information**
   - There are no specific exposure limits established for this product. Treat dusts as Particles Not Otherwise Classified (PNOC).

B. **Component Exposure Limits**
   - ACGIH TLV: 10 mg/M³ as inhalable fraction
   - 3 mg/M³ as respiration fraction
   - OSHA PEL: 50 mppcf or 15 mg/M³ as total dust
   - 15 mppcf or 5 mg/M³ as respiration fraction

**Engineering Controls:** Local mechanical ventilation when hot-wire cutting, heat scaling, flame laminating or for processes where fumes, smoke or dusts are generated.

**Personal Protective Equipment:**

- **Eye/Face:** Approved safety glasses/eye protection is recommended when processing material.
- **Skin:** No special equipment required.
- **Respiratory:** If fumes, smoke or dusts are generated use NIOSH approved respiratory protective equipment.
- **Ingestion:** There are no known health hazards associated with this material when used as designed. It is recommended employees wash thoroughly after handling the material. Wash before and after eating, smoking, drinking or using restroom facilities. Avoid breathing dusts.

### Section 9 - PHYSICAL & CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Flexible cellular solid</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Negligible Odor</td>
</tr>
<tr>
<td><strong>Physical State</strong></td>
<td>Polyurethane foam</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Vapor Pressure (mmHg)</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Vapor Density (air =1)</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Density (lb/ft³)</strong></td>
<td>0.8 – 5.0</td>
</tr>
<tr>
<td><strong>Boiling Point</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Melting Point</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Solubility in Water</strong></td>
<td>N/A</td>
</tr>
</tbody>
</table>
### Section 10 - CHEMICAL STABILITY & REACTIVITY INFORMATION

<table>
<thead>
<tr>
<th>Chemical Stability:</th>
<th>Stable under ordinary conditions of use and storage.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conditions to Avoid:</td>
<td>Heat, flames, ignition sources and fluorine and fluorine/oxygen mixtures. Fine dusts may pose dust explosion hazard.</td>
</tr>
<tr>
<td>Incompatibility:</td>
<td>Oxidizing agents.</td>
</tr>
<tr>
<td>Hazardous Decomposition Products:</td>
<td>When heated to decomposition toxic gases (primarily oxides of nitrogen and carbon) may be produced.</td>
</tr>
<tr>
<td>Hazardous Polymerization:</td>
<td>Has not been reported.</td>
</tr>
</tbody>
</table>

### Section 11 - TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Skin:</th>
<th>Not considered a primary skin irritant.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye:</td>
<td>Not considered to be an eye irritant.</td>
</tr>
<tr>
<td>Ingestion:</td>
<td>Acute oral LD$_{50}$ for an aqueous extract for rats was $&gt;15,000$ mg/Kg.</td>
</tr>
<tr>
<td>Other:</td>
<td>See Section 3 for Potential Health Effects.</td>
</tr>
</tbody>
</table>

### Section 12 - ECOLOGICAL INFORMATION

No information available.

### Section 13 - DISPOSAL CONSIDERATIONS

**Disposal Instructions:**

This material is potentially recyclable.

If the product becomes waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Dispose of in accordance to all federal, state, and local laws and regulations.

### Section 14 - TRANSPORTATION INFORMATION

**DOT Information:** This material is not hazardous as defined by 49 CFR 172.101 (US DOT).

<table>
<thead>
<tr>
<th>Shipping Name:</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Class:</td>
<td>N/A</td>
</tr>
<tr>
<td>UN/NA #:</td>
<td>N/A</td>
</tr>
<tr>
<td>Packing Group:</td>
<td>N/A</td>
</tr>
<tr>
<td>Emergency Response Guide:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Label(s) Required:** N/A

**Additional Shipping Information:** Marine Pollutants regulations not applicable to this material.

**Transport Canada Transportation of Dangerous Goods Regulations:** Not regulated as dangerous goods.
Section 15 - REGULATORY INFORMATION

US Federal Regulations:
A. General Product Information N/A
B. Component Information None of this product's components are listed under SARA Section 302 (TPO), 304 (RO), 313, RCRA, CERCLA or CAA (112(r) TO).

Clean Air Act:
The product does not contain any Class 1 or Class 2 Ozone depleting substances.

Clean Water Act:
This product is not listed as a Hazardous Substance under the CWA. This product does not contain any chemicals listed as priority of toxic pollutants under the CWA.

Section 16 - OTHER INFORMATION

This information is furnished in good faith, without warranty, expressed or implied, except that it is accurate to the best knowledge of America Excelsior Company. The information contained in this document is related on the specific material designated herein. American Excelsior Company assumes no liability for the accuracy or completeness of the information contained herein.

Key/Legend:
ACGIH American Conference of Governmental Industrial Hygienists
CAA Clean Air Act
CERCLA Comprehensive Environment Response, Compensation, and Liability Act
CFR Code of Federal Regulations
CWA Clean Water Act
DOT Department of Transportation
EPA Environmental Protection Agency
NIOSH National Institute of Occupational Safety and Health
NFPA National Fire Protection Association
OSHA Occupational Safety and Health Administration
PEL Permissible Exposure Limit
RCRA Resource Conservation and Recovery Act
SARA Superfund Amendments and Reauthorization Act
mppcf million particles per cubic foot (of air)
mg/M³ milligrams of substance per cubic meter of air

SDS Contact: American Excelsior Company Phone: (817) 385-3500