Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Product Name: ABS-FR

Contact Information:
Filabot
309 S Barre Rd
Barre, VT 05641
(802)505-6772

Section 2: Composition and Information on Ingredients

Composition:

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylonitrile butadiene styrene</td>
<td>009003-56-9</td>
<td>&lt;80%</td>
</tr>
<tr>
<td>Chlorinated polyethylene</td>
<td>064754-90-1</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>Antimony trioxide</td>
<td>001309-64-4</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>Polymer of BPA and epichlorohydrin</td>
<td>040039-93-8</td>
<td>&lt;25%</td>
</tr>
</tbody>
</table>

Toxicological Data on Ingredients:

Section 3: Hazards Identification

Solid pellets with slight or no odor. Spilled pellets can create a slipping hazard. Can burn in a fire creating dense toxic smoke. Molten plastics can cause severe thermal burns. Fumes produced during melt processing may cause eye, skin and respiratory tract irritation. Secondary operations, such as grinding, sanding or sawing, can produce dust which may present an explosion or respiratory hazard.
Section 4: First Aid Measures

Eye Contact: Immediately flush with water for at least 5 minutes.

Skin Contact: Wash off in flowing water or shower.

Inhalation: No adverse effects

anticipated when breathing

small amounts during proper

industrial handling

Ingestion: No adverse effects

anticipated by swallowing.

MELT PROCESSING: For molten plastic skin contact, cool rapidly with water and immediately seek medical attention. Do not attempt removal of plastic without medical assistance. Do not use solvent for removal.

For processing fume inhalation irritation, leave contaminated area and breathe fresh air. If coughing, difficult breathing or any other symptoms develop, seek medical attention at once, even if symptoms develop at a later time.

For skin contact with fume condensate, immediately wash thoroughly with soap and water. If irritation develops, seek medical attention.

small amounts during proper

industrial handling

Section 5: Fire and Explosion Data

Approved pressure demand breathing apparatus and protective clothing should be used for all fires. Water spray is the preferred extinguishing medium. This product will melt but will not be carried on the surface of water.

Auto-Ignition Temperature: 360°C (680°F) Estimated

Flash Points: None

Flammable Limits: LFL: N/A

UFL: N/A

Products of Combustion: Hazardous combustion products may include intense heat, dense black smoke, carbon monoxide, CO₂, and hydrocarbon fragments.

EXTINGUISHING MEDIA: Water fog, foam, CO₂, dry chemical

Explosion Hazards in Presence of Various Substances: Dense smoke emitted when burned without sufficient oxygen. Possible dust explosion.

Fire Fighting Media and Instructions: Approved pressure demand breathing apparatus and protective clothing should be used for all fires. Water spray is the preferred extinguishing medium. This product will melt but will not be carried on the surface of water.
Section 7: Handling and Storage

Prevent contact

Section 8: Exposure Controls/Personal Protection

**Engineering Controls:** A continuous supply of fresh air to the workplace together with removal of processing fumes through exhaust systems is recommended. Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, duct work and other surfaces using appropriate protection. For powders and residual dusts, refer to HANDLING AND STORAGE section. Ventilation requirements must be locally determined to limit exposure to processing fumes in the workplace. Design techniques and guidelines may be found in such publications as:

*Industrial Ventilation* - Available from the American Conference of Governmental Industrial Hygienists, Committee on Industrial Ventilation, P.O. Box 16153, Lansing MI, 48901.

**Personal Protection:**

**EYE/FACE:** Wear safety glasses with side shields or chemical goggles. In addition, use full face shield when cleansing processing fume condensates from hood, ducts and other surfaces.

**SKIN:** When handling pellets, avoid prolonged or repeated contact with skin. When melt processing product, wear long pants, long sleeves, well insulated gloves and face shield when applicable. Use appropriate protective clothing, including chemical resistant gloves, to prevent any contact with processing fume condensates.

**RESPIRATORY:** When processing fumes are not adequately controlled, use respirator approved for protection from organic vapors and acid gases. When dust or powder from secondary operations, such as grinding, sanding or sawing, are not adequately controlled, use respirator approved for protection from dust.

Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PHYSICAL STATE:</strong></td>
<td>Solid</td>
</tr>
<tr>
<td><strong>ODOR AND APPEARANCE:</strong></td>
<td>Plastic pellet with slight odor</td>
</tr>
<tr>
<td><strong>BOILING POINT:</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>MELTING POINT:</strong></td>
<td>See comment below</td>
</tr>
<tr>
<td><strong>VAPOR PRESSURE (mm Hg):</strong></td>
<td>Negligible</td>
</tr>
<tr>
<td><strong>VAPOR DENSITY (air=1):</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>SPECIFIC GRAVITY (water=1):</strong></td>
<td>&gt;1</td>
</tr>
</tbody>
</table>
Section 10: Stability and Reactivity Data

**STABILITY:** Stable under recommended conditions of storage and handling

**REACTIVITY:** Not reactive under recommended conditions of handling, storage, processing and use

**CONDITIONS TO AVOID:**
Do not exceed melt temperature recommendations in product literature. In order to avoid autoignition/hazardous decomposition of hot thick masses of plastic, purging should be collected in small, flat shapes or thin strands to allow for rapid cooling and quench in water. Do not allow product to remain in barrel at elevated temperatures for extended periods of time; purge with a general purpose polyethylene or polystyrene resin.

**HAZARDOUS DECOMPOSITION:**
Processing fumes evolved at recommended processing conditions may release fumes which include polymer fragments and other decomposition products. Fumes can be irritating. At temperatures exceeding melt temperature, polymer fragments can occur.

**HAZARDOUS POLYMERIZATION:** Will not occur

Section 11: Toxicological Information

**EYE:**
Product not considered primary eye irritant.
When similar products, in finely divided form, were placed into the
## Section 12: Ecological Information

Not expected to present any significant ecological problems.

## Section 13: Disposal Considerations

RCRA

## Section 14: Transport Information

**TRANSPORTATION AND HAZARDOUS MATERIALS DESCRIPTION:** Not a hazardous material for DOT shipping

## Section 15: Other Regulatory Information

Listed below are chemical substances subject to supplier notification requirements. The
USER RESPONSIBILITY:
Each user should read and understand this information and incorporate it into individual site safety programs in accordance with applicable hazard communication standards and regulations.

Last Updated: 11/6/2019

The information in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate. This SDS contains a general summary of hazards known to Filabot, but does not purport to describe every hazard that exists. Filabot expects each customer or user of its products (each, a “User”) to study this SDS carefully and consult appropriate expertise to become aware of any hazards associated with Filabot products. FILABOT MAKES NO WARRANTY, EXPRESS OR IMPLIED, REGARDING THE INFORMATION CONTAINED HEREIN OR ITS PRODUCTS, INCLUDING BUT NOT LIMITED TO ANY WARRANTY AS TO ACCURACY OR COMPLETENESS OF INFORMATION, OR ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.