SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION
Filabot, 305 South Main St, Barre, VT 05641
Effective Date: 1/1/2015  Print Date: 1/2/19
Product Name: ABS-FR
Color Number (if applicable): All Colors

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
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.

POTENTIAL HEALTH EFFECTS

EYE: Solids or dusts may cause irritation or scratch the surface of the eye.
SKIN CONTACT: Not irritating. Rubbing may cause irritation similar to sand or dust.
SKIN ABSORPTION: Unlikely to occur. Material is a dry sold.
INGESTION: The material is believed to present very little hazard if swallowed.
INHALATION: Exposure to dust is not expected to present a hazard.

CHRONIC EFFECTS/CARCINIGENICITY:
None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>% By Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylonitrile butadiene styrene</td>
<td>&lt;80%</td>
</tr>
<tr>
<td>Chlorinated polyethylene</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>Antimony trioxide</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>Polymer of BPA and epichlorohydrin</td>
<td>&lt;25%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES
EYES: Immediately flush with water for at least 5 minutes.

SKIN: Wash off in flowing water or shower.

INGESTION: No adverse effects anticipated by swallowing.

INHALATION: No adverse effects anticipated when breathing small amounts during proper industrial handling.

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.

5. FIRE FIGHTING MEASURES

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.

FLAMMABLE PROPERTIES: Flash point: None
Method used: N/A

FLAMMABLE LIMITS: LFL: N/A
UFL: N/A

AUTO IGNITION: 360°C (680°F) Estimated

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

FIRE & EXPLOSION HAZARDS: Dense smoke emitted when burned without sufficient oxygen. Possible dust explosion.

FIRE FIGHTING EQUIPMENT: Wear full bunker gear including a positive pressure self contained breathing apparatus.

HAZARDOUS COMBUSTION: Hazardous combustion products may include intense heat, dense black smoke, carbon monoxide, CO₂, and hydrocarbon fragments.

6. ACCIDENTAL RELEASE MEASURES

Vacuum or sweep material and place in a disposal container

7. HANDLING AND STORAGE
Prevent contact with skin and eyes. Use good industrial hygiene practices. Provide adequate ventilation. Secondary operations such as grinding, sanding or sawing may produce a dust explosion hazard. Use bonding, grounding, venting and explosion relief provisions in accordance with accepted engineering practices. Store in a dry place away from moisture, excessive heat, and sources of ignition. Avoid storage near foods to prevent contamination.

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 Hygenists, 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICAL STATE</td>
<td>Solid</td>
</tr>
<tr>
<td>ODOR AND APPEARANCE</td>
<td>Plastic pellet with slight odor</td>
</tr>
<tr>
<td>BOILING POINT</td>
<td>N/A</td>
</tr>
<tr>
<td>MELTING POINT</td>
<td>See comment below</td>
</tr>
<tr>
<td>VAPOR PRESSURE (mm Hg)</td>
<td>Negligible</td>
</tr>
<tr>
<td>VAPOR DENSITY (air=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY (water=1)</td>
<td>&gt;1</td>
</tr>
</tbody>
</table>
WATER SOLUBILITY: Insoluble
% VOLATILES: Negligible
pH: N/A
ODOR THRESHOLD: Not established
EVAPORATION RATE: Negligible
COEFFICIENT WATER/OIL DISTR.: Not established
COMMENT: This product does not exhibit a sharp melting point, but softens gradually over a wide temperature range.

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

EYE:
Product not considered primary eye irritant. When similar products, in finely divided form, were placed into the eyes of rabbits, slight transient redness or discharge occurred – consistent with the expected slightly abrasive nature of the resin particles.

ACUTE ORAL: Oral LD50 (Rate) >5 g/kg, estimated

12. ECOLOGICAL INFORMATION

Not expected to present any significant ecological problems.

13. DISPOSAL CONSIDERATION

RCRA HAZARDOUS WASTE: This product is not RCRA hazardous waste
WASTE DISPOSAL:
Recycling is encouraged. Landfill or incinerate in accordance with federal, state and local requirements. Collected processing fume condensates and incinerator ash should be tested to determine waste classification.

14. TRANSPORTATION INFORMATION

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

15. REGULATORY INFORMATION

Listed below are chemical substances subject to supplier notification requirements. The percentages, when present, represent average values.

<table>
<thead>
<tr>
<th>CAS #</th>
<th>CHEMICAL NAME</th>
<th>EPCRA (%)</th>
<th>WHMIS (%)</th>
<th>NPRI (%)</th>
<th>CA-65 (%)</th>
<th>FL RI (%)</th>
</tr>
</thead>
</table>

This product contains Antimony compounds

TSCA STATUS: This product complies with the Chemical Substance Inventory requirements of the US EPA Toxic Substance Control Act (TSCA).

WHMIS CLASSIFICATION: Not a controlled product.

16. OTHER

PREPARED BY: Product Development

The above information and recommendations are believed accurate and reliable. Because it is not possible to anticipate all conditions of use, additional safety precautions may be required. Triex LLC, dba Filabot, makes no guaranty, either express nor implied, including merchantability and fitness.

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.