

### 1. Product and Company Identification

**Product Code:** 00021  
**Product Name:** LAST-A-FOAM® FR-Series  
**Trade Name:** Rigid Polyurethane Foam  
**Company Name:** General Plastics Manufacturing Company      **Phone Number:** (253)473-5000  
 4910 S. Burlington Way  
 Tacoma, WA 98409  
**Web site address:** www.generalplastics.com  
**Email address:** support@generalplastics.com  
**Synonyms:** FR-3700, FR-4300, FR-4500, FR-4600, FR-4700, FR-6700, FR-7100, FR-10100, FR-10500, RF-2200

### 2. Hazards Identification

**GHS Signal Word:** None  
**GHS Hazard Phrases:** No phrases apply.  
**GHS Precaution Phrases:** No phrases apply.  
**GHS Response Phrases:** No phrases apply.  
**GHS Storage and Disposal Phrases:** No phrases apply.  
**Potential Health Effects (Acute and Chronic):** Fine dust can be irritating due to mechanical action in the eye. Dust masks can be worn if fine dust irritated throat.  
**Inhalation:** Dust may cause irritation to upper respiratory tract. Dust or fumes from cutting, sanding or grinding operations may be irritating to upper respiratory tract and lungs.  
**Skin Contact:** Unlikely due to form.  
**Eye Contact:** Dust may be irritation to eye due to mechanical action.  
**Ingestion:** Not likely due to form.

### 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	
NA	Polyurethane Cellular Foam	100.0 %	

### 4. First Aid Measures

**Emergency and First Aid**

**Procedures:**

**In Case of Inhalation:** Move victim to fresh air.

**In Case of Skin Contact:** Wash with plenty of soap and water.

**In Case of Eye Contact:** Hold eyelids apart and flush eyes with plenty of water. After initial flushings, remove any contact lenses and continue flushing for at least 15 minutes. Mechanical effects only.

**In Case of Ingestion:** IF SWALLOWED: In large amounts, consult a physician and follow their instructions.

**Signs and Symptoms Of Exposure:** Irritated eyes.  
  
Coughing, irritated throat.

### 5. Fire Fighting Measures

**Flash Pt:** No data.

**Explosive Limits:** LEL: No data. UEL: No data.

**Autoignition Pt:** > 500.00 F

**Suitable Extinguishing Media:** Dry chemical, CO2, sand, earth, water spray or regular foam.

**Fire Fighting Instructions:** Use NIOSH/MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire. Evacuate area and fight fire from a safe distance.

**Flammable Properties and Hazards:** Although the FR grades are self extinguishing by a test method, the material can be consumed by fire of sufficient heat and intensity.

**Hazardous Combustion Products:** hydrogen cyanide nitrogen oxides, carbon monoxide and other potentially hazardous organic fragments resulting from incomplete combustion.

### 6. Accidental Release Measures

**Steps To Be Taken In Case Material Is Released Or Spilled:** No data available.

### 7. Handling and Storage

**Precautions To Be Taken in Handling:** No data available.

**Precautions To Be Taken in Storing:** Store in a cool dry place. Direct exposure to sunlight will cause color change and surface degradation.

### 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
NA	Polyurethane Cellular Foam	No data.	No data.	No data.

**Respiratory Equipment (Specify Type):** An approved dust mask may be worn if needed.

**Eye Protection:** Eye protection is recommended.

**Protective Gloves:** No data available.

**Other Protective Clothing:** No data available.

**Engineering Controls (Ventilation etc.):** Provide general local exhaust to minimize dust.

## 9. Physical and Chemical Properties

<b>Physical States:</b>	[ ] Gas [ ] Liquid [X] Solid	
<b>Appearance and Odor:</b>	Cellular solid of various colors. No noticeable odors.	
<b>pH:</b>	NP	
<b>Melting Point:</b>	NA	
<b>Boiling Point:</b>	NP	
<b>Flash Pt:</b>	No data.	
<b>Evaporation Rate:</b>	NP	
<b>Flammability (solid, gas):</b>	No data available.	
<b>Explosive Limits:</b>	LEL: No data.	UEL: No data.
<b>Vapor Pressure (vs. Air or mm Hg):</b>	NP	
<b>Vapor Density (vs. Air = 1):</b>	NP	
<b>Specific Gravity (Water = 1):</b>	No data.	
<b>Solubility in Water:</b>	NP	
<b>Saturated Vapor Concentration:</b>	NP	
<b>Percent Volatile:</b>	N.A.	
<b>Autoignition Pt:</b>	> 500.00 F	
<b>Decomposition Temperature:</b>	Unknown	
<b>Viscosity:</b>	NP	

## 10. Stability and Reactivity

<b>Reactivity:</b>	Essentially inert.	
<b>Stability:</b>	Unstable [ ] Stable [X]	
<b>Conditions To Avoid - Instability:</b>	Avoid heating above 350 F or for FR-4700 about 450 F.	
<b>Incompatibility - Materials To Avoid:</b>	Strong acids and bases. Strong oxidizers	
<b>Hazardous Decomposition or Byproducts:</b>	Depends on temperature, oxygen/air. Hazardous fumes can be generated.	
<b>Possibility of Hazardous Reactions:</b>	Will occur [ ]	Will not occur [X]
<b>Conditions To Avoid - Hazardous Reactions:</b>	No data available.	

### 11. Toxicological Information

**Toxicological Information:** Dust may cause eye irritation and corneal injury due to mechanical action.  
**Sensitization:** None anticipated.  
**Carcinogenicity:** NTP? No IARC Monographs? No OSHA Regulated? No

### 12. Ecological Information

**General Ecological Information:** Not classified as environmentally hazardous to fish, plants, birds and aquatic organisms.  
**Persistence and Degradability:** Not biodegradable. Will break down in direct exposure to sunlight.  
**Bioaccumulative Potential:** Molecular weight >1000. Not expected to be bioaccumulative.  
**Mobility in Soil:** Insoluble in water.

### 13. Disposal Considerations

**Waste Disposal Method:** Dispose of in accordance with local, state and federal regulations.

### 14. Transport Information

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Polyurethane foam  
**DOT Hazard Class:**  
**UN/NA Number:**

**LAND TRANSPORT (Canadian TDG):**

**TDG Shipping Name:**  
**UN Number:**  
**Hazard Class:** **TDG Classification:**

**MARINE TRANSPORT (IMDG/IMO):**

**IMDG/IMO Shipping Name:**  
**UN Number:** **Packing Group:**  
**Hazard Class:**  
**IMDG EMS Page:** **IMDG MFAG Number:**  
**Marine Pollutant:** No

### 15. Regulatory Information

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
NA	Polyurethane Cellular Foam	No	No	No

**This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:**

<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Explosive
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Flammable (gases, aerosols, liquid, or solid)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Oxidizer (liquid, solid or gas)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Self-reactive
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pyrophoric (liquid or solid)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pyrophoric gas
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Self-heating
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Organic peroxide
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corrosive to metal
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Gas under pressure (compressed gas)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	In contact with water emits flammable gas
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Combustible Dust

- Yes  No (Physical) Hazard Not Otherwise Classified (HNOC)
- Yes  No Acute toxicity (any route of exposure)
- Yes  No Skin Corrosion or Irritation
- Yes  No Serious eye damage or eye irritation
- Yes  No Respiratory or Skin Sensitization
- Yes  No Germ cell mutagenicity
- Yes  No Carcinogenicity
- Yes  No Reproductive toxicity
- Yes  No Specific target organ toxicity (single or repeated exposure)
- Yes  No Aspiration Hazard
- Yes  No Simple Asphyxiant
- Yes  No (Health) Hazard Not Otherwise Classified (HNOC)

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
NA	Polyurethane Cellular Foam	TSCA: No; CA PROP.65: No

**Regulatory Information:** Not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29CFR 1910.1200

**16. Other Information**

**Revision Date:** 10/17/2018

**Hazard Rating System:**

HEALTH		0
FLAMMABILITY	1	0
PHYSICAL	0	0
<b>PPE</b>		<b>A</b>

**HMIS:**



**Additional Information About This Product:** No data available.

**This Product:**

**Company Policy or**

**Disclaimer:**

This data is subject to revision and changes due to development of and changes to the material. The data is derived from tests and historical usage. The data is averaged data and should be treated as such. Calculations should be verified by actual tests. The data is furnished without liability for the company and does not constitute a warranty or representation in respect to the material or its use. The company reserves the right to release new data sheets in replacement.

