

SAFETY DATA SHEET

Date of issue: 28/03/13

1 – Product and Company Identification

- **Product name:** G-PET® Foam
- **Material identification:** G-PET; G-PET FR; G-PET *LITE*
- **Application of the product:** Structural rigid foam
- **Supplier/Manufacturer:**

Gurit Americas Inc. 175, rue Péladeau Magog (Québec) J1X 5G9 Canada Tel: 819-847-2182	Gurit (USA) Inc. 115 Broadcommon Road Bristol, Rhode Island 02809 USA Tel: 401-396-5008
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- **For additional information :** Health, Safety and Environment department:
Email: christian.moreau@gurit.com

2 – Hazards Identification

- **Emergency overview:** Solid combustible material.
- **Hazardous status:** This material is not classified as a hazardous product. This material is defined as a manufactured article and, as such, is exempt from HCS or CPR regulations.
- **Potential health effects:**
 - Eyes: Dust from machining operations on the product may cause irritation.
 - Skin: Mechanical abrasion may cause minor irritation. Molten material may cause skin burns.
 - Inhalation: Dust from machining operations may cause irritation to upper respiratory tract.
 - Ingestion: No significant health effects can be reasonably anticipated if particles are swallowed.

3 – Composition/Information on Ingredients

Description: Rigid polymeric foam from polyethylene terephthalate polymer (PET) (CAS #25038-59-9).

Blowing agent : Cyclopentane (CAS # 287-92-3). Trace amounts of cyclopentane is expected to be released when machining the product.

Note : This product does not pose a health risk to workers.

SAFETY DATA SHEET

Date of issue: 28/03/13

4 – First Aid Measures

- **Eye contact:** If dust or particles become lodged in eyes, rinse immediately with plenty of water. If symptoms persist, consult a physician.
- **Skin contact:** No need for specific measures.
- **Ingestion:** In case of persistent symptoms, consult a physician.
- **Inhalation:** If affected by dust or vapours, remove individual to fresh air. If condition persists, obtain medical attention.

5 – Fire-Fighting Measures

- **Suitable extinguishing media:** Water, foam, carbon dioxide or dry chemical fire extinguishers.
- **Special exposure hazards:** Formation of toxic gases will occur during a fire. Combustion by-products include but are not limited to carbon monoxide, carbon dioxide, acetaldehyde and other pyrolysis products.
- **Protective equipment:** Wear fully protective suit with self contained breathing apparatus (SCBA) with a face-piece operated in positive pressure mode.

6 – Accidental Release Measures

- **Personal precautions:** No special instructions
- **Environmental precautions:** No special instructions
- **Measures for cleaning up:** Sweep up spilled material.

7 – Handling and Storage

- **Handling:** Wear appropriate personal protection when handling.
Machining operations which can produce dust should be properly fitted to a dust collection system. Prevent formation of dust that could create explosive atmospheres.
Provide adequate general ventilation and local exhaust ventilation during machining and processing operations to control airborne contaminant exposure.
Processing the product through heated equipment or tools could enhance the release of vapors.
Accumulation of static electricity charges may appear during machining operations or handling of the material. Ensure all machining equipment are bonded and grounded to reduce static energy build-up. Static electricity might give an unpleasant sensation but is not a possible source of ignition.
- **Storage:** Protect from open flames. This product is a combustible material and should be stored according to the national or local Fire Code.

SAFETY DATA SHEET

Date of issue: 28/03/13

8 – Exposure Controls / Personal Protection

• **Exposure limits :**

Ingredient name	CAS#	OSHA (PEL)	ACGIH
Particulates Not otherwise Regulated	-	15 mg/m ³ (TWA)	10 mg/m ³ (TLV)

Note: Dust from machining operations has non-respirable fraction properties.

• **Engineering measures:** Provide general and local exhaust ventilation to control airborne contaminant.

• **Personal protection equipments:**

Eye protection: Wear safety goggles.

Skin protection: Wear general purpose gloves and protective work clothing.

Respiratory protection: Wear an approved respirator with organic vapour cartridge if ventilation is not adequate. Breathing protection recommended if excessive dust is generated.

• **General measures:** Handle product with good industrial and safety practices.



9 – Physical and Chemical Properties

- **Physical state:** Solid
- **Color:** White
- **Odor:** Nearly odorless
- **Flash point:** Not applicable
- **Melting point:** 240°C (464°F)
- **Decomposition temperature:** >340°C (644°F)
- **Boiling point:** Not applicable
- **Ignition temperature:** Not available, Product does not self-ignite.
- **Vapour pressure:** Not applicable
- **Evaporation rate:** Not applicable
- **Solubility in water:** Insoluble

SAFETY DATA SHEET

Date of issue: 28/03/13

10 – Stability and Reactivity

- **Stability and reactivity:** This product is stable.
- **Conditions to avoid:** Do not overheat or expose to flame.
- **Dangerous reaction:** No dangerous reactions known.
- **Incompatibility with other substances:** Strong oxidizers, strong acids and bases will degrade the product.
- **Hazardous decomposition products:** Decomposition products include but are not limited to carbon monoxide, carbon dioxide, acetaldehyde and other toxic pyrolysis products.

11 – Toxicological Information

• Toxicological data:

Substance	DL50 (Oral Rat)	CL50 (Inhalation Rat)
Polyethylene terephthalate polymer (PET)	> 2000 mg/kg	Not available
Cyclopentane	11 400 mg/kg	Not available

- **Acute toxicity:** Dust may cause irritation to eyes.
Abrasive contact may cause irritation to skin.
Dust may cause irritation to respiratory tract.
- **Sensitization:** No sensitizing effects known.
- **Chronic toxicity:** No data available

Additional information: When used and handled according to specifications, the product is not expected to cause any adverse effects.

12 – Ecological Information

- **Ecotoxicity data:** No data available
- **Persistence and biodegradability:** No data available
- **Mobility:** Foam particles will float on the water.

13 – Disposal Consideration

- **Waste disposal:** Product is stable and not hazardous. Waste generator should review appropriate local regulations. Toxic gases will be generated if waste product is burned.

SAFETY DATA SHEET

Date of issue: 28/03/13

14 – Transport Information

- **Regulatory status**
(UN; IMDG/IATA; DOT/TDG): Not regulated for transport

15 – Regulatory Information

- **Regulatory status:**
This core material is defined as manufactured article and, therefore, is exempt from HCS or CPR regulations.
- **TSCA (USA) & DSL (CAN):** All substances are listed
- **U.S. State regulations:** Not applicable
- **WHMIS classification:** None
- **California Prop. 65:** No substance listed

16 – Other Information

- **References:** ANSI Z400.1, MSDS Standard, 2004;
29CFR 1910.1200 OSHA Hazard Communication Standard;
Controlled Products Regulations (DORS/88-66) Canada.
- **Notice to the reader:**
To the best of our knowledge, the information contained herein is accurate at the date of its publication. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.