

SAFETY DATA SHEET

Date of issue: 14/03/17

1 – Product and Company Identification

- **Product name:** Kerdyn® PET foam
- **Material identification:** Kerdyn® Green; Kerdyn® Green FST; Kerdyn® White
- **Application of the product:** Structural rigid foam
- **Supplier/Manufacturer:**
Gurit Italy S.r.l.
Via Torino 105
10088 Volpiano (TO)
Italy Tel: +39 11 995 2881
- **For additional information :** Health, Safety and Environment department:
Email: regulatory@gurit.com

2 – Hazards Identification

This product is not classified as a hazardous product under EU Directives. However, when subject to machining operations, the release of dust and vapor may pose a risk if work is not performed under good industrial and safety practices.

- **Potential health effects:**

- Eyes: Dust from machining operations on the product may cause irritation.
- Inhalation: Dust and vapours released from machining or processing 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) or polyethylene terephthalate-isophthalate copolymer with nonhazardous additions.

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

SAFETY DATA SHEET

Date of issue: 14/03/17

4 – First Aid Measures

- **Eye contact:** If dust particles become lodged in the 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.
- **Most important symptoms/effects:** Upper respiratory system irritation.
- **Immediate medical attention and special treatment:** No special requirements.

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, aldehyde, ethylene, 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. Reduce direct exposure to smoke and fumes.

6 – Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:** No special measures required.
- **Clean up methods and materials:** Vacuum or sweep up material.

7 – Handling and Storage

- **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 and keep away from sources of ignition including static discharge during operations.
Provide adequate general ventilation and local exhaust ventilation during machining and processing operations to control airborne contaminant exposure.
Processing the product through heated equipment could enhance release of vapors and could result in thermal burns from molten material when handling without proper protective equipments.
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.
- **Storage:** Protect from heat and 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: 14/03/17

8 – Exposure Controls / Personal Protection

- Exposure limits :**

Ingredient name	CAS#	OEL (TWA)
Cyclopentane	287-92-3	European Union : 600 ppm (8h) Denmark : 300 ppm (8h)
Total inhalable dust	-	European Union : 10 mg/m ³ (8h)

Note: Dust fraction size from machining operations will not constitute a respirable dust issue.

- Engineering measures:** Provide general ventilation and local exhaust ventilation to control airborne contaminants.

- 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 sufficient. 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:** Various
- Odor:** Product specific
- Flash point:** Not applicable
- Melting point:** >220°C
- Thermal decomposition:** >300°C
- Boiling point:** Not determined
- Vapour pressure:** Not applicable
- Solubility in water:** Insoluble

Note: Items not included in this section are not available or not relevant to this product.

SAFETY DATA SHEET

Date of issue: 14/03/17

10 – Stability and Reactivity

- **Chemical stability:** This product is stable.
- **Conditions to avoid:** Do not overheat or expose to open flames.
- **Chemical reactivity:** No relevant information available.
- **Possibility of hazardous reactions:** No hazardous reactions known.
- **Incompatibility with other substances:** Strong oxidizers, strong acids and bases will damage the product.
- **Hazardous decomposition products:** Decomposition products include but are not limited to carbon monoxide, carbon dioxide, aldehyde, ethylene, 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

- **Route of exposure** (when processing the product): inhalation, eye contact.
 - Dust released when machining the product may cause irritation to upper respiratory tract.
 - Dust released when machining the product may cause eye irritation.
 - Product is not expected to present harmful effects if swallowed.
- **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, biodegradability and mobility:** No data available

SAFETY DATA SHEET

Date of issue: 14/03/17

13 – Disposal Consideration

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

14 – Transport Information

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

15 – Regulatory Information

- **Regulatory status under EU Directives :**

This product is not subject to classification under the Regulation on Classification, Labelling and Packaging of Substances and Mixtures. This product is considered by definition an article under REACH.

16 – Other Information

- **References:** Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH); European Regulation on Classification, Labelling and Packaging of Substances and Mixtures (CLP);

- **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.