



SAFETY DATA SHEET

Chemtrec 24-Hour Emergency Telephone
Domestic North America (800) 424-9300
International (703) 527-3887

*This SDS complies with 29 CFR 1910.1200
(Hazard Communication) and the GHS*

1. Product and Supplier Identification / Product Hazard Summary

Product: ORCA GPET FOAM |
Product No: 40100111001100, 40100111007100, 40100111011050, 40100111011075, 40100111011001 |
40100109007050
Trade Name: STRUCTURAL FOAM |
Supplier: Fiberlay Inc.
24 S. Idaho St.
Seattle, WA 98134
(206) 782-0660

HEALTH:	FLAMMABILITY:	REACTIVITY:	SPECIFIC HAZARD:
*CAUTION! *May be harmful if swallowed or inhaled *May be irritating to the skin eyes and respiratory tract *May cause allergic skin reaction *Heated material may cause thermal burns	*Warning! Flammable Liquid & Vapor	*Caution! Unstable at high temperatures	--

2. Composition

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.

3. 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: Product is not expected to present harmful effects if swallowed.

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 vapors, 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.

Not suitable extinguishing media: None known.

Special exposure hazards: Formation of toxic gases will occur during overheat or in case of fire.

Decomposition 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.

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 equipment:

Eye protection: Wear safety goggles.

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

Respiratory protection: Wear an approved respirator with organic vapor 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 is not self-igniting.
Relative density:	0.120 g/cm ³
Vapor pressure:	Not applicable
Evaporation rate:	Not applicable
Solubility in water:	Insoluble

10. Stability and Reactivity

Stability and reactivity: This product is stable.

Conditions to avoid: Do not overheat to avoid thermal decomposition.

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	NA
Cyclopentane	11,400 mg/kg	NA

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 Considerations

Waste disposal: Product is stable and not hazardous. Waste generator should review appropriate regulations that may vary from one location to another. Toxic gases will be generated if waste product is burned.

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

ORCA Composites believes the law requires us to inform you that detectable amounts of any of the listed chemicals might be present in ORCA products. Based on a review of the list, ORCA products, like all synthetic and naturally occurring chemical substances, may conceivably contain trace contaminants of some of the listed substances. While not necessarily added to our products as ingredients, some of the listed chemicals may be present in the raw materials as received from suppliers over which we have no control.

In order to comply with the California Law, even though some of the listed substances may not represent a significant risk as defined by the regulations, we feel obligated to make the following statement:

“Warning: This product may contain trace amounts of some chemicals considered by the State of California to be carcinogens or reproductive Toxicants.”

Preparation Date: 2/19/2015

Prepared by: Orca Composites

Comments: This Safety Data Sheet was prepared using information provided by Orca Composites

Revisions: None

We believe the above information is correct as of the date of this SDS. However, as this information and the conditions under which the product are used are beyond the control of ORCA Composites, it is the user's obligation to determine the conditions for the safe use of the product. No warranty, expressed or implied, is hereby made.