



# 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 PVC FOAM

Product No:

Trade Name: STRUCTURAL RIGID FOAM

Supplier: Fiberlay Inc.  
24 S. Idaho St  
Seattle, WA 98134  
(206) 782-0660

### HEALTH:

#### \*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

### FLAMMABILITY:

- \*Warning! Flammable  
Liquid & Vapor

### REACTIVITY:

- \*Caution! Unstable at  
high temperatures

### SPECIFIC HAZARD:

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## 2. Composition

**Chemical Characterization:** Rigid foam consisting of semi-interpenetrating network between Polyvinyl Chloride and aromatic polyureas.  
**Blowing Agents:** Nitrogen (N<sup>2</sup>) and Carbon dioxide (CO<sup>2</sup>)

## 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 a fire. Combustion by-products include but are not limited to carbon monoxide, carbon dioxide, hydrogen chloride and hydrogen cyanide.

**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

No special measures required

## 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. 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 <sup>3</sup> (TWA)	10 mg/m <sup>3</sup> (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:	Varied
Odor:	Nearly odorless
Flash point:	Not applicable
Melting point:	Not Established
Decomposition temperature:	>220°C (428°F)
Density:	30-400 kg/m <sup>3</sup>
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.

**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:** Not Available

### Acute Effects:

**Eyes:** Dust may cause irritation to eyes.

**Skin:** Abrasive contact may cause minor irritation to skin.

**Inhalation:** Dust and vapor may cause respiratory tract irritation.

### Chronic Effects:

**Sensitization:** No sensitizing effects known.

**Mutagenic effects:** Not available

**Teratogenic effects:** Not available

**Reproduction effects:** Not available

**Carcinogenic effects:** Not listed by IARP, NTP, OSHA, EU, ACGIH

**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. Toxic gases will be generated if waste product is incinerated.

## 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

California Proposition 65 involving warnings of the presence of certain listed chemicals is now in effect.

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: 10/1/2014**

**Prepared by: Orca Composites**

**Comments:** This Material 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.*