

1. Identification

Identification of the substance

Trade Name: HYDROBLOC®

Product Description: Fluted plastic polypropylene board for waterjet cutting bricks

Synonyms: Corrugated PP boards

Use(s) of the substance: Waterjet brick intended for use in waterjet cutting

Restriction(s) on use of the substance: None known

Company Identification

Barton International

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2. Hazard(s) Identification

Physical Appearance: Fluted polypropylene boards; red and black or other colors

Immediate Concerns: When using or handling HYDROBLOC bricks, as supplied, there are very low hazards.

OSHA Hazard Category: Combustible dust

GHS Hazard Categories: Not classified

Signal Word: Warning! This product as shipped is not classified as a combustible dust; however, a combustible concentration of dust may occur if fines are suspended in air (e.g. from cutting or sanding the HYDROBLOC bricks).

Pictogram: There is no pictogram for a combustible dust hazard.

Rough edges of HYDROBLOC bricks could result in minor cuts to hands. Appropriate gloves should be worn to prevent cuts and/or scraps.

Avoid contact with strong oxidizing agents.

When working with the HYDROBLOC bricks at hot temperatures, the material may begin to decompose producing fumes that can contain carbon dioxide, carbon monoxide, and other unidentified organic compounds that come from the breakdown of the materials used to make the boards. Adequate ventilation should be provided to minimize exposures to fumes.

When cutting, shaping or modifying HYDROBLOC bricks, other hazards may exist.

Potential Health Effects

Eyes: Dust from cutting may result and mechanically irritate the eyes; if using elevated temperatures, vapors may irritate eyes.

Skin: Cuts or scraps referenced above; if using elevated temperatures to soften the HYDROBLOC bricks, exposure to molten resin may cause thermal burns.

Ingestion: Dust or debris from cutting may irritate the throat, mouth and stomach.

Inhalation: Inhalation of fine dust, from cutting or sanding, may cause irritation of the respiratory system; inhalation of vapors from use of elevated temperatures may also cause irritation of the respiratory system.

3. Composition and Information on Ingredients

The primary composition of this product is polypropylene. This product contains a proprietary blend of components encapsulated within a polymer matrix.

Chemical Name	CAS Number	Wt. %
Propylene/ethylene copolymer	9010-79-1	70-100
Proprietary	Mixtures	0-30

4. First Aid Measures

The following applies should the HYDROBLOC bricks be cut, sanded or otherwise processed which generates dust, debris or vapors.

Eye Contact: Immediately flush eyes with water for at least 15 minutes. Do not rub the eyes. If irritation develops, consult a physician.

Skin: Get medical attention for serious burns. In case of skin contact with hot HYDROBLOC material, immediately immerse in or flush with clean, cold water.

Ingestion: Consult physician.

Inhalation: Move to fresh air. If irritation persists or breathing is difficult, get medical attention.

5. Fire Fighting Measures

Extinguishing Media: Foam, dry chemical, carbon dioxide (CO₂), water spray

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, and other possible toxic combustion products.

Explosion Hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Special protective equipment for firefighters: Use self-contained breathing apparatus and full protective gear.

Sensitive to Static Discharge: Static discharge could be an ignition source for a combustible concentration of dust.

6. Accidental Release Measures

As supplied, the product presents no risk of spill or release.

7. Handling and Storage

Precautions for Safe Handling: Wear safety glasses during cutting and fabricating processes. Electrostatic charge may build up during handling. Grounding of equipment is recommended.

Handling: If the product is cut or sanded, avoid exposure to dust and debris. Provide appropriate local ventilation at machinery and at places where dust can be generated. In addition, wear suitable respiratory equipment to avoid breathing dusts containing Titanium dioxide and/or carbon black.

Storage: Store in a dry place and away from direct sunlight. Keep away from heat, flame and strong oxidizing agents.

8. Exposure Controls and Personal Protection

Occupational Exposure Limits: Not applicable.

Engineering Controls: Ventilation Requirements – General ventilation should be sufficient. However, if operating conditions create high airborne concentrations of this material, special ventilation may be needed. If handling results in dust generation, special ventilation may be needed to ensure that dust exposure does not exceed the OSHA PEL for nuisance dust.

Personal Protective Equipment

Respiratory Protection: Not required under normal handling and processing. Should conditions exist that require respiratory protection, for example while cutting or sanding generating dusts, a NIOSH/MSHA approved respirator should be worn.

Eye Protection: When cutting or processing the product, wear safety glasses with side shields.

Body Protection: Wear protective gloves to avoid incidental cuts or scraps that could occur when handling the edges of product.

9. Physical and Chemical Properties

Physical Form: Fluted boards

Specific Gravity: 0.7 to 1.2 (water = 1)

Odor: Insignificant

Solubility in water: Insoluble

Melting Point: 150 – 170°C (302 - 338°F)

Flash Point: 422°C (792°F)

Auto Ignition Temp: 425°C (797°F)

The physical data presented above are typical values and should not be construed as a specification.

10. Stability and Reactivity

Chemical Stability: Stable

Conditions to Avoid: Do not store product near heat or flame. When cutting or sanding, minimize dust generation and accumulation. Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products: No dangerous decomposition products known.

11. Toxicological Information

Acute Toxicity

Skin Irritation: Not expected to cause skin irritation.

Eye Irritation: Mechanical eye irritation

Sensitization/Allergic Reaction: No sensitizing effects known

Repeated dose toxicity: No known chronic health effects.

12. Ecological Information

Ecotoxicity: No data is available on the adverse effects of this product on the environment.

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available.

13. Disposal Considerations

Disposal Method

- (1) Recycle (reprocess) and reclamation of HYDROBLOC should be encouraged where possible.
- (2) Incineration including energy recovery of waste material in a permitted facility in accordance with local, state or provincial and federal regulations.
- (3) Landfilling in a licensed facility in accordance with local, state or provincial and federal regulations.

14. Transport Information

This product is not regulated as a hazardous material/dangerous good for transportation. This product is not regulated by US DOT, IMO, and IATA. It is not applicable for UN/NA number, hazard label, hazard placard, packing group, bulk packaging, RQ, and emergency response guide (ERG) number.

15. Regulatory Information

United States

U.S. Toxic Substances Control Act (TSCA): All component(s) comprising these products are compliant with TSCA. These products have no special requirements under TSCA (e.g. consent orders, test rules, 12(b) requirements, etc.).

OSHA Hazard Communication Rule: This product is not considered a hazardous material as shipped or at temperatures below the melting point according to OSHA definitions.

SARA Title III: This product is not subject to SARA Title III requirements.

SARA Section 302 Toxic Chemical List: No components listed.

SARA Section 313 Toxic Chemical List: No components listed.

Canada

Domestic Substances List (DSL): All component(s) comprising this product are compliant with the DSL.

WHMIS (Workplace Hazardous Materials Information System): This product is not considered a controlled substance under WHMIS. This SDS meets WHMIS format requirements.

16. Other Information

HMIS Ratings:

Health:	0
Flammability:	1
Physical Hazard:	0

Revision: October 28, 2019

Revision Changes: Changed format to 16 Section Safety Data Sheet (SDS) to comply with OSHA HazCom Standard update published in the Federal Register of March 26, 2012 and the UN Global Harmonization System of Classification and Labeling of Chemicals (GHS) requirements.

Refer to NFPA 652, Standard for Combustible Dusts, and NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

Disclaimer:

This Safety Data Sheet (SDS) conforms to the U.S. Department of Labor Occupational Safety and Health Administration requirements in 29 CFR 1910.1200 and is an integral part of any "**RIGHT TO KNOW**" program. This information should be read by the customer and made available to anyone who has reason to use or to come in contact with this product.

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