



THOR Tarp
 Div. of **ODIN** International, Inc



MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Flame Retardant Polyethylene Fabrics

PRODUCT CODE(S): Includes DuraShield 8000 ASFR green polyethylene fabric printed with carbon grid.

WHMIS Classification: Not Controlled **HIMS Codes:** H F R P
0 1 0 B

SECTION I – MANUFACTURER IDENTIFICATION	
Manufacturer's Name: ODIN International, Inc.	
Manufacturer's Address: 4408 Deer Park Road, Oconomowoc, WI, 53066	
Emergency Phone: 262-569-7171	Information Phone: 262-569-7171
Date Prepared: May 8, 2006	Prepared By: Steve Wallace

SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION
<p>Non-hazardous, comprised mainly of polypropylene. Products contain minor levels of a proprietary flame retardant, partially composed of antimony trioxide and an organ bromine compound, which is locked in the matrix of the fabric. However, it is recommended that these products not be used for the collection and/or containment of portable water. Direct contact with food should also be avoided. Colored and printed fabrics contain small quantities of proprietary pigments that may be health hazards in concentrated form. Contained in the matrix of the fabric, they do not make the fabric hazardous. More details on specific colors may be available on request.</p>

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS	
Appearance and Odor: Flexible sheet in various colors, slight odor	
Boiling Point: Not Available	Specific Gravity: 0.91 – 0.98
Vapor Density: Not Available	Evaporation Rate: Not Available
Solubility in Water: Insoluble in cold and hot water.	pH: Not Available
Vapor Pressure: Not Available	Freezing Point: 115 to 130 °C
Coefficient of Oil/Water Distribution: Not soluble in water or oil.	

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SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flashpoint: Not Available

Flammable Limits in Air by Volume: Lower: Not Available Upper: Not Available

Special Firefighting Procedures: All individuals required to enter the hazard area must wear full-face, NIOSH-approved self-contained breathing apparatus and appropriate protective clothing.

Unusual Fire and Explosion Hazards: Polypropylene products are not highly flammable, but will melt and/or burn when exposed to heat or open flame. Avoid contact with molten, dripping plastic. When heated to decomposition, product emits acrid smoke and irritating fumes.

SECTION V – REACTIVITY DATA

Stability: Stable. Decomposition temperature > 80 °C (175 °F).

Conditions to Avoid: Temperatures above 80 °C (175 °F).

Incompatibilities (Conditions to Avoid): Consult manufacturer before using as containment or barrier for chemicals other than water. Very slightly reactive with oxidizing agents, acids, and alkalis.

Hazardous Decomposition or Byproducts: Carbon monoxide, carbon dioxide, oxides of nitrogen, and hydrocarbons may be generated during thermal decomposition and combustion.

Hazardous Polymerization: Will not occur.

SECTION VI – HEALTH HAZARD DATA

Inhalation Health Risks, Symptoms of Exposure: Avoid breathing dust, it may cause irritation if exposure is prolonged or excessive

Skin/Eye contact Health Risks, Symptoms of Exposure: Prolonged and/or repetitive contact can cause abrasion and irritation. Contact with molten product will burn unprotected skin and eyes. Should a burn occur, cool burn area immediately with cool, clean, running water until no heat is emitted from burn area. Cover with light, dry dressing. Do not apply oily ointments or puncture blisters. Obtain medical assistance.

Ingestion Health Risks, Symptoms of Exposure: Products should not be eaten, nor used as food wrapping without consulting the manufacturer.

Health Hazards (Acute and Chronic): None

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

Mutagenic Effects: None known.

Developmental Toxicity: Not toxic.

Teratogenic Effects: None known.

Medical Condition Generally Aggravated by Exposure: May aggravate respiratory and/or skin ailments.

Emergency and First Aid Procedures: If in contact with hot or molten plastic, treat the effected are with cool water and seek medical attention.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE
Steps to be Taken in Case Material is Released or Spilled: Normal, good housekeeping practices. Use a shovel, or other appropriate instrument, to put the material into a convenient waste disposal container. Recycle to process, if possible. Spilled product may create a slipping hazard (especially if wet).
Waste Disposal Method: In accordance with local, state/provincial and federal regulations. Preferred disposal methods are (1) clean and reuse if possible; (2) contact plastic supplier; (3) incinerate with waste heat recovery, and/or (5) landfill.
Precaution to be Taken in Handling and Storage: Products may be slippery to walk on when wet. Charges of static electricity may be generated during handling and processing.

SECTION VIII – EXPOSURE CONTROLS, PERSONAL PROTECTION
Respiratory Protection: Not required under normal handling and ventilation. Should conditions exist that require respiratory protection, and organic vapor protection mask is recommended.
Ventilation: Local exhaust. If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Small amounts of fines or dust may accumulate in material handling systems. If permitted to accumulate, these fines and dust can, under certain conditions, pose an explosion hazard. Every effort should be made to prevent the concentration or accumulation of fines or dust in, or around, material handling systems.
Protective Gloves: Recommended in cases of repetitive contact, such as sewing operations.
Eye Protection: Safety glasses or goggles.
Other Protective Equipment or Clothing: None at ambient temperatures. Wear heat protective clothing if there is a potential for contact with molten material.
Work/Hygienic Practices: Wash hands after handling and before eating.

SECTION IX – REGULATORY
SARA Title III Hazard Category: No applicable information found.

To the best of our knowledge, the information contained herein is accurate. The information provided is based upon data furnished by our suppliers. However, ODIN International, Inc. assumes no liability whatsoever for the accuracy or completeness of the information contained herein. While believed to be reliable, the information of products are intended for use by skilled persons at their own risk. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that those are the only hazards that exist.