

# MATERIAL SAFETY DATA SHEET

Hazardous Materials Identification Systems (HMIS)

## I. PRODUCT IDENTIFICATION

Name: **Solar Shield**  
Number:  
Class:  
MSDS Revision Date: 01/18/98  
Effective Date: 01/18/98

Health: 1  
Flammability: 0  
Reactivity: 0  
Personal Protective Equipment:

## II. HAZARDOUS INGREDIENTS

Ingredient / CAS Numbers:  
Ethylene Glycol 107-21-1  
Barium Metaborate 13701-59-2  
Silica Quartz (as dust) 14808-60-7  
Amorphous Silica (as dust) 7631-86-9  
Proprietary Polymers & other non-hazardous ingredients 7631-86-9  
Water 732-18-5

TLV: PEL: Percent:  
50 ppm < 2.0  
.05 mg/m<sup>3</sup> < 6.0  
.1 mg/m<sup>3</sup> < .01 - .15  
10. mg/m<sup>3</sup> .0 - .6  
> 63  
> 25

## III. PHYSICAL DATA

Boiling Point: 212° F  
Melting Point: N/A  
Vapor Pressure (mm Hg): 17.5  
Vapor Density: < 1  
Evaporation Rate: < 1  
Specific Gravity: 1.03  
% of Volatile by Weight: 30  
% of Water Volume: > 25

## VII. SPILL / LEAK PROCEDURES

Material Released: Ventilate confined spaces. Keep product out of watercourses by diking.  
Waste Disposal Method: Contact local authorities. Comply with local code.

## VIII. SAFE HANDLING / USE INFORMATION

Hygienic Practices: Wash skin after contact.  
Respiratory Protection: None required if good ventilation is maintained. Otherwise, wear MSHA/NIOSH approved respirator.  
Ventilation: None under normal conditions. Mechanical, if sprayed in enclosed area.  
Protective Gloves: Recommended, not required.  
Eye Protection: Use tight fitting splash goggles or face shield.  
Other Protective Equipment: None required. To avoid repeated skin contact, long sleeve shirts, pants extending over work shoes, chemical resistant apron.

## IV. FIRE & EXPLOSION HAZARD DATA

OSHA Flammability Class: None  
DOT: None

Flash Point: N/A  
Unusual Fire / Explosion Hazard: Dry product may burn. Use water, foam, chemical or CO<sub>2</sub> extinguisher.  
Extinguishing Media: None needed  
LEL: 0.9  
Special Firefighting Procedures: None

## IX. SPECIAL PRECAUTIONS

Handling/Storage: Do not store near flame. Keep containers closed when not in use. Adequate ventilation required. Store in cool, dry area away from direct sunlight. Do Not Freeze.  
Other: None

## V. HEALTH HAZARD DATA

Effects of Over Exposure: None  
Medical Conditions: Skin, Inhalation, Eyes, Ingestion  
Primary Route(s) of Entry: Inhalation, Eyes, Skin, Ingestion

## X. TRANSPORTATION DATA

Shipping Name: Not regulated.  
Labeling: N/A  
Labeling Required: None required.

## VI. REACTIVITY DATA

Stability: Stable  
Hazardous Polymerization: Will not occur  
Hazardous Decomposition: None known  
Conditions to Avoid: None  
Incompatibility: None

Hazard Class: N/A

This product is not classified as a carcinogen by the National Toxicology Program or the Occupational Safety and Health Administration.

## Thermo Manufacturing

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