



X-RAY QUALITY  
WITHOUT PURGING

## Material Safety Data Sheet SOLAR FLUX Type B

### I. Product Identification

**Manufacturer:** Golden Empire Corporation  
P.O. Box 2129  
Morehead City, NC 28557  
Phone: (252) 808-3511 - FAX: (252) 808-3711 - E-Mail: solrflux@aol.com

**Chemical and Synonyms:** none

**CAS No.:** none

**Trade Name and Synonyms:** SOLAR FLUX TYPE B

**UN NO.:** none

**Chemical Family:** none

**Formula:** Trade secret per 29 CFR 191.1200(i)(1) & Appendix D

### II. Hazardous Ingredients

**Material or Component:** Free crystalline silica as a component of silicon dioxide, a chemical known to the state of California to cause cancer.

**CAS No.:** 14808-60-7

**Percentage:** 6 - 12%

**Hazard Data:** ACGIH TLV for free crystalline silica is 0.1 mg/m<sup>3</sup>. Repeated inhalation and prolonged over-exposure above TLV could result in delayed lung injury (silicosis) or cancer.

**Non-hazardous ingredients:** 88 - 94%

### III. Physical Data

**Boiling Point, 760mm Hg:** 3060° F.

**Melting Point:** none

**Specific Gravity (H<sub>2</sub>O = 1):** 2.2

**Vapor Pressure:** none

**Vapor Density (Air = 1):** none

**Solubility in H<sub>2</sub>O, & by wt.:** 4.2 gm/ml

**% Volatiles by Volume:** none

**Evaporation Rate:** zero

**Appearance and Odor:** dark gray powder, odorless

**PH (as is), PH at dilution:** not applicable

#### IV. Fire and Explosion Data

**Flash Point:** none  
**Auto Ignition Temperature:** none  
**Flammable Limits in Air, % by Volume:** none  
**Lower/Upper:** none  
**Extinguishing Media:** any  
**Special Fire Fighting Procedures:** none - water may be used  
**Unusual Fire and Explosion Hazard:** none

#### V. Health Hazard Information

##### Routes of Exposure / Hazard Classification / Basis for Classification / Source

**Inhalation:** Solar Flux is primarily a nuisance dust. But see section II (above), Hazardous Ingredients, for data on Silica component.

**Skin Contact:** nuisance dust

**Skin Absorption:** none

**Eye Contact:** nuisance dust

**Ingestion:** nuisance dust

##### Effects of Overexposure

**Acute Overexposure and Chronic Overexposure:** See section II (above), Hazardous ingredients

##### Emergency and First Aid Procedures

**Eyes:** Rinse with water. If irritation occurs and persists, see a doctor.

**Skin:** Wash with soap and water. If irritation occurs and persists, see a doctor.

**Inhalation:** Keep area well-ventilated to prevent inhaling dust. No special first aid procedures required unless enormous quantities inhaled.

**Ingestion:** Drink plenty of water and induce vomiting. See a doctor.

**Notes to Physician:** Not applicable

#### VI. Reactivity Data

**Conditions contributing to Instability:** none

**Incompatibility (Materials to Avoid):** none

**Hazardous Decomposition Products:** none

**Conditions Contributing to Hazardous Polymerization:** none

#### VII. Spill or Leak Procedures

**Steps to Be Taken if Material is Released or Spilled:** Inert dry powder. Sweep up and discard in solid waste.

**Neutralizing Chemicals:** not applicable

**Waste Desposal Method of Spill or Leak:** Dispose of in accordance with federal, state, and local regulations. Not classified as toxic waste.

#### VIII. Special Protection Information

Ventilation Requirements: Well-ventilated area. Local exhaust. Standard for welding.

##### Specific Personal Protective Equipment

**Respiratory (specify in detail):** standard for welding

**Eye:** standard for welding

**Gloves:** standard for welding

**Other Clothing and Equipment:** standard for welding

## **IX. Special Precautions**

**Labeling Information and Warnings:** Contains silica. Use in well-ventilated area.

### **Data for Hazards Information label**

(Hazard Code: 4 = extreme, 3 = high, 2 = moderate, 1 = slight, 0 = insignificant)

**Flammability:** 0

**Health:** 0

**Reactivity:** 0

**Special:** 0

**Other Handling and Storage Requirements:** none

## **X. Disposal**

**Waste Disposal Method:** No special precautions. See section VII (above). Spill or Leak Procedures.

**Aquatic Toxicity:** none

## **XI. Government Regulations**

### **Reference to Applicable Government Regulations**

#### **Federal:**

29 CFR 1910.1200 et.seq (General Statute, all chemicals)

IATA - various-DOT (Solar Flux can be shipped by any method. No special label or precautions required)

#### **State:**

CALIFORNIA PROPOSITION 65 (Contains silica, a chemical known to the state of California to cause cancer)

#### **Other:**

CANADA - W.H.M.I.S. (See part II, re silica)

Department of Transportation (See above for IATA & DOT)

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Latest revision date March 2008

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