



X-RAY QUALITY
WITHOUT PURGING

Material Safety Data Sheet SOLAR FLUX Type I

I. Product Identification

Manufacturer: Golden Empire Corporation
P.O. Box 2129
Morehead City, NC 28557
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Chemical and Synonyms: none

CAS No.: none

Trade Name and Synonyms: SOLAR FLUX TYPE I

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 - **CAS No.:** 14808-60-7, **Percentage:** 1 - 4%

Sodium Fluoride - **CAS NO.:** 7681-49-4, **Percentage:** 15-18%

Hazard Data: ACGIH TLV for free crystalline silica is 3.8 to 4.3 mg/m³ total dust. 1.4 to 1.7 mg/m³ respirable dust. Repeated inhalation and prolonged over-exposure above TLV could result in delayed lung injury (silicosis), cancer, or irritation.

Non-hazardous ingredients: 78 - 84%

III. Physical Data

Boiling Point, 760mm Hg: 3060° F.

Melting Point: none

Specific Gravity (H₂O = 1): 2.2

Vapor Pressure: none

Vapor Density (Air = 1): none

Solubility in H₂O, & by wt.: 4.2 gm/100ml

% Volatiles by Volume: none

Evaporation Rate: zero

Appearance and Odor: white 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: non - 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 and Sodium Fluoride components.

Skin Contact: irritant

Skin Absorption: none

Eye Contact: irritant

Ingestion: irritant

Effects of Overexposure

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

Emergency and First Aid Procedures

Eyes: Rinse with large quantities of water. Get medical attention.

Skin: Wash with soap and large quantities of water. Get medical attention.

Inhalation: Keep area well-ventilated to prevent inhaling dust. Remove person to fresh air. Get medical attention.

Ingestion: Drink plenty of water. Get medical attention.

Notes to Physician: Not applicable

VI. Reactivity Data

Conditions contributing to Instability: none

Incompatibility (Materials to Avoid): none

Hazardous Decomposition Products: Strong acids or thermal decomposition may cause evolution of Hydrogen Fluoride Gas.

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 Disposal 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): Wear NIOSH-approved respirator

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 Type I 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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Disclaimer: This data is believed to be accurate. Golden Empire Corporation makes no warranty to and disclaims all liability from reliance.