

### 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 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

<b>Ventilation Requirements</b>	Well ventilated area. Local exhaust.	Standard for welding.
<b>Specific Personal Protection Equipment</b>		
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

<b>Labeling Information and Warnings</b>	Contains silica. Use in well-ventilated area.	<b>Data for Hazard Information Label</b>	
		Hazard Code	
		4 = Extreme	Flammability = 0
		3 = High	Health = 0
		2 = Moderate	Reactivity = 0
		1 = Slight	Special = 0
		0 = Insignificant	
<b>Other Handling and Storage Requirements</b>	None		

### X. DISPOSAL

<b>Waste Disposal Method:</b>	No special precautions. See section VII (above), Spill or Leak Procedures.
<b>Aquatic Toxicity:</b>	none

### XI. GOVERNMENT REGULATIONS

<b>Reference to Applicable Government Regulations</b>	<b>Regulation Highlights</b>
Federal 29 CFR 1910.1200 et seq IATA - various - DOT	General Statute, all chemicals Solar Flux Type B can be shipped by any method. No special label or precautions required.
State CALIFORNIA PROP. 65	Contains silica, a chemical known to the state of California to cause cancer.
Other CANADA - W.H.M.I.S. - Dept. of Trans.	See part II, re silica. See above for IATA & DOT

Prepared by:

R.L. Wehrmeister  
GOLDEN EMPIRE CORPORATION  
P.O. BOX 2129  
Morehead City, North Carolina  
(252) 808-3511  
FAX (252) 808-3711

*R.L. Wehrmeister*  
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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.

## MATERIAL SAFETY DATA SHEET SOLAR FLUX TYPE B

### I. PRODUCT IDENTIFICATION

<b>Manufacturer:</b>	GOLDEN EMPIRE CORPORATION P.O. BOX 2129, MOREHEAD CITY, NORTH CAROLINA 28557 (252) 808-3511 FAX (252) 808-3711		
<b>Chemical and Synonyms:</b>	none	<b>CAS No.</b>	none
<b>Trade Name and Synonyms:</b>	SOLAR FLUX TYPE B	<b>UN No.</b>	none
<b>Chemical Family:</b>	none	<b>Formula:</b>	Trade secret per 29 CFR 191.1200 (i) (1) & Appendix D

### II. HAZARDOUS INGREDIENTS

Material or Component	CAS No. UN No.	%	Hazard Data
Free crystalline silica as a component of silicon dioxide, a chemical known to the state of California to cause cancer.	14808-60-7	6-12	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

<b>Boiling Point, 760 mm Hg</b>	3060° F.	<b>Melting Point</b>	none
<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	2.2	<b>Vapor Pressure</b>	none
<b>Vapor Density (Air = 1)</b>	none	<b>Solubility in H<sub>2</sub>O, % by wt.</b>	4.2 gm/ml
<b>% Volatiles by Volume</b>	none	<b>Evaporation Rate</b>	zero
<b>Appearance and Odor</b>	dark gray powder odorless	<b>pH (as is)</b>	
		<b>pH at dilution</b>	not applicable

### IV. FIRE AND EXPLOSION DATA

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

### V. HEALTH HAZARD INFORMATION

Health Hazard Data	Hazard Classification	Basis for Classification	Source
<b>Routes of Exposure</b>			
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	
<b>Effects of Overexposure</b>			
Acute Overexposure		See section II (above), HAZARDOUS INGREDIENTS	
Chronic Overexposure		Same as above	
<b>Emergency and First Aid Procedures</b>			
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	