

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND CONTACT INFORMATION

Product Name: Quartz Wool

AR 085, AR 177, AR 1608, AR8379, AR9721

Alpha Resources, Inc.  
P.O. Box 199  
Stevensville, MI 49127  
Phone: 269-465-5559

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	%W	CHEMICAL NAMES	OSHA PEL (mg/m3)	ACGIH TLV (mg/m3)
60676-86-0	100	Quartz (fused Silica)	0.1 (dust)	0.1

## 3. HAZARD IDENTIFICATION

### POTENTIAL HEALTH EFFECTS

EYES: Can be irritating.

SKIN: Can be irritating.

INHALATION: See chronic overexposure.

INGESTION: No adverse chemical effects anticipated since material is insoluble. Injury may result from ingestion of quartz pieces due to sharp edges or abrasion.

CHRONIC OVEREXPOSURE: Chronic excessive inhalation exposure to fused silica dust may produce lung injury. Fused silica appears amorphous when subjected to X-ray diffraction, by one report suggests it may contain microcrystals of quartz and could be fibrogenic. Prolonged excessive in halation exposure to the condensed vapors reportedly can produce transient pulmonary lesions which are reversible upon cessation of exposure.

ACUTE OVEREXPOSURE: See above for eyes, skin and inhalation. .

MERDICAL CONDITIONS AGGRAVATED: Persons with chronic respiratory disease may be at al increased risk from exposure to either dust from cutting or form fume.

CARCINOGENICITY: Although the evidence is limited and conflicting, crystalline silica is listed by IARC as a possible human carcinogen. The carcinogenic status of fused silica has not been determined.

## 4. FIRST AID MEASURES

EYES: Flush with large amounts of water. Get medical attention if irritation persists.

INHALATION: Removed from exposure to fresh air immediately. If not breathing give artificial respiration, preferable mouth-to-mouth. If breathing is difficult, give oxygen.

SKIN: Wash skin and hands with soap and water.

INGESTION: No emergency care anticipated. Material is insoluble.

## 5. FIRE FIGHTING MEASURES

## FLAMMABLE PROPERTIES

Non-flammable

Flash Point: Not available

Flammable Limits: (% by Volume in Air): Lower: None Upper: None

AUTO-IGNITION TEMPERATURE: N/A

HAZARDOUS COMBUSTION PRODUCTS: None.

EXTINGUISHING MEDIA: N/A

FIREFIGHTING INSTRUCTIONS: No special procedures.

## 6. ACCIDENTAL RELEASE MEASURES

SMALL/LARGE SPILL: Use normal clean up procedures, using a vacuum wherever possible, taking care to avoid excessive dusting.

## 7. HANDLING AND STORAGE

HANDLING: Normal precautions for handling potentially sharp, broken-edged material.

STORAGE: Keep container closed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: for cutting or grinding operations, use local exhaust ventilation if necessary, to maintain exposure limits.

RESPIRATORY PROTECTION: If exposure may exceed permissible limits, use a NIOSH approved respirator for toxic dusts having a TLV not less than 0.05 mg/m<sup>3</sup>. Always observe respirator limitations.

SKIN AND HAND PROTECTION: None.

EYE AND FACE PROTECTION: Safety Glasses

OTHER PROTECTIVE EQUIPMENT: None.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: solid, fibrous, white substance

BOILING POINT: 4045 F (2230 C)

FREEZE-MELT POINT: 3110 F (1710 C)

VAPOR PRESSURE: 10 mm Hg @ 3150 F (1732 C)

VAPOR DENSITY: N/A

SOLUBILITY IN WATER: Insoluble.

SPECIFIC GRAVITY: 2.65

pH: N/A

ODOR: None

PERCENT VOLATILES: 0

EVAPORATION RATE: N/A

## 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

INCOMPATIBILITY: Dissolves in Hydrofluoric acid.

HAZARDOUS DECOMPOSITION PRODUCTS: N/A.

HAZARDOUS POLYMERIZATION: None.

## 11. TOXICOLOGICAL INFORMATION

Not available.

## **12. ECOLOGICAL INFORMATION**

None available.

## **13. DISPOSAL CONSIDERATION**

Dispose of in accordance with federal, state and local regulations.

## **14. TRANSPORTATION INFORMATION**

USA DOT: Not regulated

## **15. REGULATORY INFORMATION**

### **US FEDERAL REGULATIONS**

TSCA STATUS: On toxic Substance Control Inventory

CERCLA Reportable Quantity: None

RCRA Status: Not regulated

### **SARA TITLE III:**

Section 302 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: Acute, Chronic

Section 313 Toxic Chemicals: None

### **CANADAIN REGULATIONS**

WHMIS: Not Regulated

## **16. OTHER INFORMATION**

Hazard Index: (0-4, 4= Extreme)

Health: 1 Fire: 0 Reactivity: 0

### **SUPPLEMENTAL INFORMATION**

The data and information as stated was furnished by the manufacturer/vendor &/or supplier of this product. Alpha Resources, Inc. cannot warrant the accuracy of this information and shall not be responsible or liable for any damage that may result, should any of the information be erroneous.

Date Prepared: July 8, 2005

Prepared by: Scot Burns