

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND CONTACT INFORMATION

Product Name: Ceramic (Quartz) Refractory

AR 026, AR 028, AR 040, AR 040P, AR 042, AR 042P, AR 043, AR 043S, AR3818, AR3818B, AR3818BS, AR3818F, AR 3818P, AR 3818S, AR4961, AR5000, AR7605, AR8028, AR8028F, AR8030, AR8120 AR8203, AR9204, AR9204-250, AR9204P, AR9880, AR9880-100, AR 344, AR6309, AR6313, AR6308, AR6068, AR6070, AR6089, AR 816

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<br>PEL (mg/m3) | ACGIH<br>TLV (mg/m3) | NIOSH<br>TWA (mg/m3) |
|------------|-----|-----------------|---------------------|----------------------|----------------------|
| 14808-60-7 | >50 | Quartz (Silica) | 10                  | 0.1 (Total)          | N/A                  |
| 1332-58-7  | <35 | Clay            | 5 (resp)            | 3 (resp)             | N/A                  |
| 68476-25-5 | <15 | Feldspar        | 5 (resp)            | 3 (resp)             | N/A                  |

## 3. HAZARD IDENTIFICATION

### POTENTIAL HEALTH EFFECTS

EYES: May cause temporary eye irritation.

SKIN: May cause temporary skin irritation and/or abrasion.

INHALATION: Cough, wheezing, impaired breathing function.

INGESTION: May cause irritation of the gastrointestinal tract, particularly the stomach.

CHRONIC OVEREXPOSURE: Excessive inhalation of respirable crystalline silica (quartz) dust may cause a progressive and sometimes fatal lung disease called silicosis. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.

ACUTE OVEREXPOSURE: Progressive inhalation symptoms including silicosis and histiocytic fibrosis of the lungs.

CARCINOGENICITY: The International Agency for Research on Cancer has determined that there is sufficient evidence for carcinogenicity of crystalline silica (quartz) to experimental animals and limited evidence with respect to humans (Group 2A-probably carcinogenic to humans).

## 4. FIRST AID MEASURES

EYES: Flush with large amounts of water.

INHALATION: Removed from exposure to fresh air immediately.

SKIN: Wash skin and hands with soap and water.

INGESTION: Consult a physician.

## 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: N/A.

EXTINGUISHING MEDIA: N/A

FIREFIGHTING INSTRUCTIONS: N/A

## **6. ACCIDENTAL RELEASE MEASURES**

SMALL/LARGE SPILL: Pick up large pieces, vacuum dusts up. Use a dust suppressant if sweeping is necessary to minimize potential exposures.

## **7. HANDLING AND STORAGE**

HANDLING: Do not grind, cut, crush or otherwise cause dust. Do not allow to become wet. If product becomes wet, it must be thoroughly dried before putting into use. If wet products are put into use, the explosive spalling may occur.

STORAGE: Keep container closed.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

ENGINEERING CONTROLS: provide sufficient mechanical ventilation to maintain exposure below PEL.

RESPIRATORY PROTECTION: Recommended if TLVs or PELs are exceeded.

SKIN AND HAND PROTECTION: Recommended.

EYE AND FACE PROTECTION: Safety glasses with side shields if airborne particles are produced.

OTHER PROTECTIVE EQUIPMENT: Protective shoes are recommended.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: various white shapes

BOILING POINT: N/A

FREEZE-MELT POINT: 2192 F (1600 C)

VAPOR PRESSURE: N/A

VAPOR DENSITY: N/A

SOLUBILITY IN WATER: Insoluble.

SPECIFIC GRAVITY: 2.6

pH: N/A

ODOR: None

PERCENT VOLATILES: 0

EVAPORATION RATE: N/A

## **10. STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable.

INCOMPATIBILITY: Hydrofluoric acid and powerful oxidizers.

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

Section 313 Toxic Chemicals: None

CANADAIN REGULATIONS

WHMIS: D-2A

## **16. OTHER INFORMATION**

### **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: January 11, 2013

Prepared by: Ken Mantei