

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND CONTACT INFORMATION

Product Name: Carbon/Graphite

AR 053, AR 053P, AR 782, AR 782P, AR 433, AR 431, AR 431P, AR 213, AR 213P, AR 277, AR 277P, AR 331S, AR 034, AR 034PAR 414, AR 414P, AR9520, AR9520C, AR9520M, AR 761, AR6247, AR7827, AR 073, AR2029, AR4531, AR4533, AR 053HD, AR 782HD, AR6247M

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	%W	CHEMICAL NAMES	OSHA PEL (mg/m3)	ACGIH TLV (mg/m3)	NIOSH TWA (mg/m3)
7440-44-0	100	Carbon	15 (total) 2 (resp)	15 (Total) 2 (resp)	N/A

## 3. HAZARD IDENTIFICATION

### POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation.

SKIN: May cause skin irritation.

INHALATION: No short term effects. Prolonged and repeated overexposure to dust may lead to pneumoconiosis.

INGESTION: Not available.

CHRONIC OVEREXPOSURE: Prolonged and repeated overexposure may lead to benign pneumoconiosis.

ACUTE OVEREXPOSURE: Not available.

MERDICAL CONDITIONS AGGRAVATED: Individuals with pre-existing chronic respiratory impairments or with serum antitrypsin deficiency may be at increased risk of pneumoconiosis. .

CARCINOGENICITY: None.

## 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. Get medical attention if breathing has stopped.

SKIN: Wash skin with plenty of soap and water.

INGESTION: none necessary.

## 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: Carbon Dioxide, Carbon Monoxide.

EXTINGUISHING MEDIA: Water, Carbon Dioxide, dry chemical, foam, sand..

FIREFIGHTING INSTRUCTIONS: Graphite and Carbon dust are not normally explosive, but may contribute in the event of another explosion of gas or dust. Carbon and graphite dusts are electrically conductive, dust accumulations may cause electrical short circuits or other electrical malfunctions. Fire fighters should wear self-contained breathing apparatus.

## **6. ACCIDENTAL RELEASE MEASURES**

SMALL/LARGE SPILL: Normal housekeeping practices.

## **7. HANDLING AND STORAGE**

HANDLING: Nothing special.

STORAGE: Keep container closed.

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

ENGINEERING CONTROLS: local ventilation recommended if dust level exceeds PEL limit.

RESPIRATORY PROTECTION: NIOSH/MSHA respirator if exposure above the PEL limit.

SKIN AND HAND PROTECTION: None required.

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

OTHER PROTECTIVE EQUIPMENT: None required.

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

APPEARANCE: Gray/black solid

BOILING POINT: None

FREEZE-MELT POINT: N/A

VAPOR PRESSURE: N/A

VAPOR DENSITY: N/A

SOLUBILITY IN WATER: Insoluble.

SPECIFIC GRAVITY: N/A

DENSITY: 1/6 g/cm<sup>3</sup>

pH: N/A

ODOR: None

PERCENT VOLATILES: N/A

EVAPORATION RATE: N/A

## **10. STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable.

INCOMPATIBILITY: Strong oxidants, will oxidize slowly in air temperature of 400 C or greater.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide and Carbon Dioxide gases.

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. Cleanup personnel should wear respirators and protective clothing. .

## **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: Chronic

Section 313 Toxic Chemicals: None

### CANADAIN REGULATIONS

WHMIS: Not regulated

## **16. OTHER INFORMATION**

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

Health: 0 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