

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Graphite

AR053, AR053P, AR782, AR782P, AR433, AR431, AR431P, AR213, AR213P, AR277, AR277P, AR331S, AR034, AR034P, AR414, AR414P, AR9520, AR9520C, AR9520M, AR761, AR6247, AR7827, AR073, AR2029, AR5431, AR5433, AR053HD, AR782HD, AR6247M, AR79001, AR200020, AR200010

This product is intended for laboratory use.

Alpha Resources Inc. 3090 Johnson Rd. Stevensville, MI 49127 (269)465-5559

sales@alpharesources.com

www.alpharesources.com

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word

N/A

Pictograms

SECTION 2— HAZARDS IDENTIFICATION

This material is not considered a hazardous substance or mixture. If used as intended, this material won't produce any hazards. This material shouldn't be worked any further. Grinding and machining must be avoided, due to the dust produced from graphite causing hazardous conditions.

SECTION 3— COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Graphite	7782-42-5	C	12.011	100 %
Synonyms: Carbon; Black lead				

SECTION 4— FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell (P312).

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). Seek medical attention

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If eye irritation persists:** Get medical advice or attention (P337+P313).

If on skin: Wash with plenty of water. (P302+P352). If persists seek medical attention and bring label.

If swallowed: Wash out mouth with water if the person is able to do so. Call a doctor or poison center.

SECTION 5 — FIRE FIGHTING MEASURES

Appropriate Extinguishing Media: Use regular dry chemical or water spray.

Inappropriate Extinguishing Media: N/A

Specific Hazards Arising from Chemical: N/A

Fire Fighting Instructions: Evacuate area. Firefighters should use standard protective equipment including self-contained breathing apparatus. Water spray can be a good way to cool fire exposed surfaces and protect personnel.

Flash Point: N/A

Auto-ignition temperature: N/A

NFPA

CODE

None

Established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use suitable personal protective equipment when cleaning up any spills. Provide adequate ventilation. If dust formation occurs, use appropriate respiratory protection.

Environmental Precautions: Do not allow to be released into drains or water ways.

Clean-up Method: Collect the material and dispose of according to local, regional, state, and federal regulations. Using damp cloth wipe up spill area. Avoid dust generation.

SECTION 7 — HANDLING AND STORAGE

Handling: Avoid any contact with bare skin, clothing, and eyes. Wash all areas after handling material. Proper ventilation is required when using this product. Avoid allowing container to leak into water ways. Keep away from heat/sparks/flames/hot surfaces and no smoking. Avoid static discharge by all means necessary.

Storage: This product should be stored in a cool, dry place and kept sealed (P233) when not in use. Avoid sources of ignition

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limit Values:

Graphite (CAS#7782-42-5) (OSHA) PEL 15 mg/m³ total dust 5mg/m³ respirable
(ACGIH) TWA 2 mg/m³ (respirable fraction)

Engineering Controls: Proper ventilation must be available to be certain exposure limits are not exceeded.

Respiratory Protection: Wear a NIOSH applicable certified respirator to limit exposure to materials.

Hand Protection: Glove suitability will differ depending on the end use of product.

Eye protection: Safety glasses with side shields are necessary if splashing is possible. Eye wash station should be in close proximity to work area. Safety shower should also be nearby.

Skin and Body Protection: Chemical and oil resistant clothing are recommended for extended periods of contact.

Hygiene: Wash hands and areas of possible exposure after handling material especially before eating, drinking, and smoking. The work clothing should also be washed regularly to remove any contaminants. Dispose of contaminated clothing that can't be deemed safe.

Environmental: Don't release this material into water ways or drains. If this material is released, contact the proper authorities.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Steel gray to black solid. Feels greasy. Odorless.

Specific gravity: 2.0 - 2.25

Soluble: Generally insoluble.

SECTION 10 — STABILITY AND REACTIVITY

Stable at normal laboratory conditions.

Avoid contact with strong oxidizers, halogens, and potassium superoxide. A fire risk as a fine powder.

Shelf life: Indefinite, if stored properly. See Section 7 for further information.

SECTION 11 — TOXICOLOGICAL INFORMATION

Toxicological Data

Acute: Oral LD50 Rat, >2000mg/kg

Inhalation LC50 Rat, 2,000mg/m³ (4hr)

Other LD50 mouse 440mg/kg

Information on toxicological effects

Acute toxicity: no data available

Skin corrosion/irritation: Skin-rabbit: resulted in no skin irritation

Serious eye damage/eye irritation: Eyes-rabbit: resulted in no eye irritation.

Respiratory or skin sensitization: Mouse: didn't cause sensitization on laboratory animals.

Germ cell mutagenicity: in vitro assay S. typhimurium result: negative

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Potential health effects

Inhalation May be harmful if inhaled.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Signs and Symptoms of Exposure: no data available

Acute effects: Cough, dyspnea, eye irritation.

Chronic effects: Decreased pulmonary function, lung fibrosis

Target organs: Respiratory system, cardiovascular system..

SECTION 12 — ECOLOGICAL INFORMATION

Toxicity Data: Toxicity to fish semi-static test LC50-Danio rerio(zebra fish): > 100mg/l (96hr)

Toxicity to daphnia and other aquatic invertebrates static test EC50-Daphnia magna(water flea): >100mg/l (48hr)

Toxicity to algae static test EC50-Pseudokirchneriella subcapitata: >100mg/l (72hr)

Mobility in soil: no data available

Bioaccumulative potential: no data available

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

SECTION 14 — TRANSPORT INFORMATION

Not dangerous goods

SECTION 15 — REGULATORY INFORMATION

U.S. Regulations:

CERCLA Sections 102a/103 (40 CFR 302.4): Not regulated.

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Section 313 (40 CFR 372.65): Not regulated.

OSHA Process Safety (29 CFR 1910.119): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE HEALTH: Yes

CHRONIC HEALTH: No

FIRE: No

REACTIVE: No

PRESSURE: No

State Regulations: California Proposition 65: Not listed.

US Mass. RTK substance List Graphite CAS 7782-42-5

US New Jersey Worker and Community RTK Act substance List Graphite CAS 7782-42-5

US Pennsylvania Worker and Community RTK Law substance List Graphite CAS 7782-42-5

U.S. TSCA Inventory: Listed

TSCA 12(b), Export Notification: listed.

Canadian Regulations: WHMIS Information is not provided for this material

SECTION 16 — OTHER INFORMATION

The data and information as stated was furnished by the manufacturer/vendor/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.
