Alpha Resources Inc.

Safety Data Sheet (SDS)

Revision Date: May 5, 2015

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Ethylenediaminetetraacetic acid (EDTA)

AR2030, AR2092, AR2092-250

This product is intended for laboratory use.

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

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word: WARNING

SECTION 2— HAZARDS IDENTIFICATION

Hazard Class: Eye irritation (category 2A)

Hazard Statement: Causes serious eye irritation (H319).

Precautionary Statements: Wash skin thoroughly after handling (P264) and wear protective gloves/eye protection/face protection (P280).

First-Aid Statements: IF IN EYES: rinse cautiously with water for several minutes, remove contact lenses, if present and easy to do, continue rinsing (P305+P351+P338) and if eye irritation persists: get medical advice/attention (P337+P313).

SECTION 3— COMPOSITION, INFORMATION ON INGREDIENTS

Hazardous substance required for disclosure.

Component	CAS #	Common %
Ethylenediaminetetraacetic acid	60-00-4	100

SECTION 4— FIRST AID MEASURES

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). If breathing is difficult qualified personnel may administer Oxygen. If not breathing give artificial respiration when qualified.
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 and soap. (P302+P352). Wash contaminated clothing before reuse (P363).
If swallowed: Rinse mouth. Call a poison center or physician. Never induce vomiting.

SECTION 5 — FIRE FIGHTING MEASURES

Extinguishing media: use dry chemical, alcohol-resistant foam, carbon dioxide, or water spray.
Special hazards arising: Carbon oxides, nitrogen oxides
Advice for firefighters: Wear self-contained breathing apparatus for fire-fighting when required. The flame retardant clothing should be used to protect the individual. Also, other personal protective equipment should be utilized.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Protection: Use personal protective equipment when cleaning up release. Ensure adequate ventilation. If no ventilation, a respirator must be used. Avoid breathing dust.
Environment: Avoid release into environment, especially water ways and drains.
Method: This material can be swept up and placed in a sealed vessel for disposal. Make sure to not stir up the dust because it can be harmful when inhaled. Wash the area with wet cloth after being swept up completely.

SECTION 7 — HANDLING AND STORAGE

Handling: Keep sealed and don't breathe dust if produced. Wear appropriate clothing for protection. Where no ventilation is available a respirator will be required.

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

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limit Values: Doesn't contain any substances with occupational exposure limit values.

Not: Limits/standards shown for guidance only. Follow regulations.

Engineering Controls: Proper ventilation must be available to prevent over-exposure. Don't blow off dust from clothing or skin with compressed air.

Personal Protection: Respiratory protection could be required if adequate ventilation has not been achieved.

Hand Protection: Glove suitability will differ depending on the end use of product. Chemical resistant gloves can provide an excellent barrier of protection.

Eye protection: Safety glasses with side shields are necessary if splashing is possible.

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.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Note: Physical and chemical properties are provided for safety, health, and environmental considerations only and may not represent the products specifications. Contact supplier for additional information.

White powder	Odorless	Relative density: 1.46g/cm^3@ 20ºC
Melting Point: 250ºC	Boiling Point: No data	Vapor Density: N/A
pH: 2.5 at 10g/l @ 23ºC	Partition coefficient: n-octanol/water	log Pow:8.85-10.44 @ 20ºC
Auto-ignition temperature: >400ºC		

SECTION 10 — STABILITY AND REACTIVITY

Stable material at normal laboratory conditions.

Reactivity: No data

Avoid: strong oxidizing agents

Corrosively: No data

Hazardous Decomposition: Other decomposition products-no data

Hazardous Polymerization: None

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute toxicity: LD50 Oral Rat:4,500mg/kg

Inhalation**:** no data

Dermal: no data

Toxicity to Animals:

Skin corrosion/irritation: Skin Rabbit Results: no skin irritation

Serious eye damage/eye irritation: Eyes Rabbit Results: eye irritation

Respiratory or skin sensitization: Maximization test Rabbit Results: Doesn't cause skin sensitization.

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, and OSHA**.**

Reproductive toxicity: no data

Specific target organ toxicity-single/repeated exposure: no data

SECTION 12 — ECOLOGICAL INFORMATION

Toxicity Data:

Toxicity to fish static test LC50: Lepomis macrochirus (Bluegill sunfish) – 41mg/l (96hr)

Toxicity to daphnia and other aquatic invertebrates static test EC50: Daphnia magna (Water flea) – 625mg/l (48hr)

Bio-degradation: no data

Bioaccumulative potential: Bioacumulation Lepomis macrochirus: 28d -80µg/l Bioconcentration factor BCF:1.8

Mobility in soil: no data

Other adverse effects: Could be harmful to aquatic organisms due to the change of pH. Avoid release into environment.

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste disposal should be done in compliance with existing federal, state and local environmental regulations. Do not contaminate any streams, lakes, or ponds.

SECTION 14 — TRANSPORT INFORMATION

DOT UN#:3077 Class:9 Packing group:III Reportable quantity: 5000 lbs. Marine pollutant: no

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Edetic acid)

IMDG and IATA no a dangerous good.

SECTION 15 — REGULATORY INFORMATION

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title II, Section 302.

SARA 313 Components: This material doesn't contain any chemical components with known CAS that exceed the threshold reporting levels established by SARA Title III, Sect. 313.

SARA 311/312 Hazards: Acute health hazards

Massachusetts RTK Components: Edetic Acid (CAS#60-00-4)

Pennsylvania RTK Components: Edetic Acid (CAS#60-00-4)

New Jersey RTK Components: Edetic Acid (CAS#60-00-4)

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

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.