

<b>Alpha Resources Inc.</b>
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**Safety Data Sheet (SDS)**

Revision Date: May 4, 2015

**SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****Nickel Chromium Firing Wire**

AR2266, AR205, AR205-100, AR205-1KG, AR2122, AP845

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: N/A

**SECTION 2— HAZARDS IDENTIFICATION**

This product is not classified as hazardous per GHS 29 CFR 1910.1200.

Under normal use and handling, this product is in solid form which presents little to no health hazards. Grinding, melting, or further working this material may potentially create hazardous dust or fumes that can be inhaled and come into contact with skin or eyes.

**SECTION 3— COMPOSITION, INFORMATION ON INGREDIENTS****Hazardous substance required for disclosure.**

Component	CAS #	Common %
Nickel	7440-02-0	<90
Chromium	7440-47-3	>15

**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.

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**SECTION 5 — FIRE FIGHTING MEASURES**


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Non-flammable in solid form.

When heated to decomposition some toxic fumes may be released.

A tri-class dry chemical, alcohol resistant foam, and carbon dioxide fire extinguisher can be used to put out flames.

Wear self-contained breathing apparatus for fighting fires if necessary.

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**SECTION 6 — ACCIDENTAL RELEASE MEASURES**


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**Protection:** Use personal protective equipment when cleaning up release. Ensure adequate ventilation. If no ventilation, a respiratory must be used.

**Environment:** Avoid release into environment.

**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.

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**SECTION 7 — HANDLING AND STORAGE**


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**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.

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**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**


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**Exposure Limit Values**

Material	Form	Standard	Limit
Nickel	Solid	OSHA PEL	1mg/m <sup>3</sup>
Nickel	Solid	ACGIH TLV	1.5mg/m <sup>3</sup>
Chromium	Solid	OSHA PEL	1mg/m <sup>3</sup>
Chromium	Solid	ACGIH TLV	0.5mg/m <sup>3</sup>

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

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

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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**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.**

Solid shiny silver metal	Odorless	Relative density: 8.4
Melting Point: 1400°C	Boiling Point: No data	Vapor Density: N/A

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**SECTION 10 — STABILITY AND REACTIVITY**

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Stable material at normal laboratory conditions.

**Reactivity:** No data

**Avoid:** Don't create dust or powder. These fine particles can be harmful and reactive..

**Corrosivity:** Non-corrosive with presence of glass.

**Hazardous Decomposition:** No decomposition at ambient temp.    **Hazardous Polymerization:** None

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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**Points of entry:** inhalation and ingestion

**Toxicity to Animals:** no data

**Symptoms of exposure:** Fines/dust may irritate skin and eyes

**Acute and Chronic Effects on Humans:**

**Nickel:** The common harmful effect of Nickel is an allergic skin reaction to some who are sensitive to Nickel. Nickel compounds are known human carcinogens, the evidence shows that insoluble nickel is not as likely to present a carcinogenic hazard as compared to such compounds that release proportionately more nickel ion.

**Chromium:** Much is known about the effects of chromium compounds, the opposite is known about the health effects of chromium metal. This material isn't well studied. Due to insolubility most elements in their metallic state are not considered to be serious health hazards.

**Human carcinogen:**

**Nickel:** NTP: R-reasonably anticipated as being a human carcinogen IARC: 2B-possibly carcinogenic to humans.

**Chromium:** NTP: Not identified as carcinogenic. IARC: 3-Not classifiable as to carcinogenicity in humans.

To the best of our knowledge the chemical, physical, and toxicological characteristics of the substance are not fully known.

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**SECTION 12 — ECOLOGICAL INFORMATION**

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This product shouldn't be released without the proper paperwork.

**Eco-toxicity Data:** no data

**Bio-degradation:** no data

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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

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**SECTION 14 — TRANSPORT INFORMATION**

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Not regulated for land transport by DOT

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**SECTION 15 — REGULATORY INFORMATION**

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

SARA 313 Components: The following components are subject to reporting levels established by SARA Title III, Section 313:

Chromium (CAS#7440-47-3) and Nickel (CAS#7440-02-0)

SARA 311/312 Hazards: Acute health hazards, chronic health hazards

Massachusetts RTK Components: Chromium (CAS#7440-47-3) and Nickel (CAS#7440-02-0)

Pennsylvania RTK Components: Chromium (CAS#7440-47-3) and Nickel (CAS#7440-02-0)

New Jersey RTK Components: Calcium oxide (CAS#1305-78-8) Tungsten trioxide (CAS#1314-35-8) Kaolin (CAS#1332-58-7)

This product does contain a chemical known to the State of California to cause cancer, birth defects, or any other reproductive harm. (Kaolin CAS#1332-58-7)

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**SECTION 16 — OTHER INFORMATION**

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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.

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