

Alpha Resources Inc.

Safety Data Sheet (SDS)

Revision Date: April 6, 2015

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Alphacel III (Tungsten)

AR027, AR027B, AR266, AR 266B, AR266S, AR266K, AR7629, AR7630, AR7631, AR7632, AR02530, AR02530A, AR02530B, AR02530C

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

Classification: Flammable solids (Category 1), skin irritation (Category 2) and eye irritation (Category 2A).**Hazard Statements:** Flammable solid (H228), causes skin irritation (H315), and causes serious eye irritation (H319).**Precautionary statements:** Keep away from heat/sparks/open flames/hot surfaces-no smoking (P210), ground/bond container and receiving equipment (P240), use explosion-proof electrical/ventilating/lighting/equipment (P241), wash skin thoroughly after handling (P264), wear protective gloves/eye protection/face protection (P280), if on skin: wash with plenty of soap and water (P302+P352), if in eyes: rinse cautiously with water for several minutes, remove contact lenses, if present and easy to do, continue rinsing (P305+P351+P338), if skin irritation occurs: get medical advice/attention (P332+P313), if eye irritation persists: get medical advice/attention, take off contaminated clothing and wash before reuse. (P362).

SECTION 3— COMPOSITION, INFORMATION ON INGREDIENTS

Hazardous substance required for disclosure.

Component	CAS #	Common %
Tungsten	7440-33-7	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. (P302+P352). Wash contaminated clothing before reuse (P363).**If swallowed:** Rinse mouth. Call a poison center or physician. Do NOT induce vomiting.

SECTION 5 — FIRE FIGHTING MEASURES

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Special Hazards: Tungsten oxide

Firefighters Advice: Wear a self-contained breathing apparatus for firefighting, along with any routine personal protection clothing available.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use the proper personal protective equipment when dealing with this materials. Avoid breathing vapors, mist or gas. Be sure that adequate ventilation is available. Evacuate any personnel that can be done safely. Keep dust inhalation to a minimum.

Environmental precautions: Keep this material from entering sewers or drains. Prevent further spillage if safe to do so.

Method for Cleanup: Sweep together into a pile and use a electrically protected vacuum to remove from area. A wet cloth can be used to sweep into a disposal container. Dispose of according to applicable regulations.

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. Keep away from sources of ignition-no smoking. Prevent the build-up of static electricity.

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

Storage class: flammable solid hazardous material (TRGS 510)

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limit Values

Component	CAS#	Value	Limit	Basis
Tungsten	7440-33-7	TWA	5mg/m ³	USA, ACGIH (TLV) Threshold Limit Value
	Remarks			Lower Respiratory Tract Irritation
		STEL	10mg/m ³	USA, ACGIH (TLV)
	Remarks			Lower Respiratory Tract Irritation
		TWA	5mg/m ³	USA, NIOSH Recommended Exposure Limits
		ST	10mg/m ³	USA, NIOSH Recommended Exposure Limits
		TWA	5mg/m ³	USA, ACGIH (TLV)
	Remarks			Lower Respiratory Tract Irritation Varies
		STEL	10mg/m ³	USA, ACGIH (TLV)
	Remarks			Lower Respiratory Tract Irritation Varies
		TWA	5mg/m ³	USA, NIOSH Recommended Exposure Limits
		ST	10mg/m ³	USA, NIOSH Recommended Exposure Limits
		TWA	5mg/m ³	USA, ACGIH (TLV)
	Remarks			Lower Respiratory Tract Irritation Varies
		STEL	10mg/m ³	USA, ACGIH (TLV)

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

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.

Grey powder	Odorless	Relative density: 19.3g/cm ³ @ 25°C
Melting Point: 3410°C	Boiling Point: 5660°C	Vapor Density: N/A
Refractive index: N/A	Flammability: The substance is a flammable solid with the category 1.	
Flash point: N/A	Auto-Ignition Temperature: N/A	

SECTION 10 — STABILITY AND REACTIVITY

Stable material at normal laboratory conditions.

Avoid: Don't create dust or powder. These fine particles can be harmful and reactive. Keep away from heat, flames, and sparks.

Incompatible: Reactive with strong oxidizing agents and halogens.

Hazardous Decomposition: No data

SECTION 11 — TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

LD50 Oral - Rat - male and female - > 2,000 mg/kg (OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - > 5.4 mg/l (OECD Test Guideline 403)

LD50 Dermal - Rat - male and female - > 2,000 mg/kg (OECD Test Guideline 402)

Skin corrosion/irritation: Skin – Rabbit, Result: No skin irritation - 4 h (OECD Test Guideline 404)

Serious eye damage/eye irritation: Eyes – Rabbit, Result: Mild eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitization: Maximization Test (GPMT)

Guinea pig, Result: Does not cause skin sensitization. (OECD Test Guideline 406)

Germ cell mutagenicity: No data available

Carcinogenicity: OSHA/NTP/ACGIH/IARC: 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 OSHA/NTP/ACGIH/IARC.

Reproductive toxicity: No data available

Reproductive toxicity: Rat-Oral, Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Specific Developmental Abnormalities: Musculoskeletal system.

Developmental Toxicity: Rat-Oral, Specific Developmental Abnormalities: Musculoskeletal system.

Specific target organ toxicity-single exposure: No data available

Specific target organ toxicity-repeated exposure: No data available

Aspiration hazard: No data available

SECTION 12 — ECOLOGICAL INFORMATION

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

Eco-toxicity Data: N/A

Bio-accumulative potential: N/A

Mobility in soil: N/A

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. Contact a professional waste service for disposal of this material.

SECTION 14 — TRANSPORT INFORMATION

DOT (US): UN number: 3089 Class: 4.1 Packing group: II

Proper shipping name: Metal powders, flammable, n.o.s.

Reportable Quantity (RQ): n/a

Poison Inhalation Hazard: No

IMDG: UN number: 3089 Class: 4.1 Packing group: II EMS-No: F-G, S-G

Proper shipping name: METAL POWDER, FLAMMABLE, N.O.S.

IATA: UN number: 3089 Class: 4.1 Packing group: II

Proper shipping name: Metal powder, flammable, n.o.s.

SECTION 15 — REGULATORY INFORMATION

SARA 302 Components

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

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire Hazard

Massachusetts Right To Know Components

Tungsten CAS-No.7440-33-7 Revision Date: 1994-04-01

Pennsylvania Right To Know Components

Tungsten CAS-No. 7440-33-7 Revision Date: 1994-04-01

New Jersey Right To Know Components

Tungsten CAS-No.7440-33-7 Revision Date: 1994-04-01

California Prop. 65 Components

This product does not contain any chemicals known to 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.