

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND CONTACT INFORMATION

Product Name: AlphaCel II and AlphaCel HP

AR 008, AR 008B, AR7633, AR7634, AR 173

Alpha Resources, Inc.
P.O. Box 199
Stevensville, MI 49127
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2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	%W	CHEMICAL NAMES	OSHA PEL (mg/m3)	ACGIH TLV (mg/m3)
7440-33-1	<70	Tungsten	Not given	5
7440-31-5	>30	Tin	2	2

3. HAZARD IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYES: May cause irritation.

SKIN: May cause irritation.

INHALATION: May cause short term or permanent lung damage.

INGESTION: Not available.

CHRONIC OVEREXPOSURE: Not known.

ACUTE OVEREXPOSURE: Inhalation and skin effects generally occur in conjunction with exposure to other dusts.

MEDICAL CONDITIONS AGGRAVATED: Exposure to dust or fumes may aggravate chronic respiratory disease.

CARCINOGENICITY: None.

4. FIRST AID MEASURES

EYES: Flush with large amounts of water. Seek medical attention if irritation continues.

INHALATION: Removed to fresh air immediately. If necessary, aid with breathing and seek medical help

SKIN: Wash skin with plenty of soap and water. Seek medical attention if irritation continues.

INGESTION: Seek medical attention.

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: When Tungsten burns in air, it forms Tungsten Trioxide, which sublimates above 1382 C (750 F).

EXTINGUISHING MEDIA: Class D fire extinguishing agents, dry powder.
FIREFIGHTING INSTRUCTIONS: Wear a self-contained breathing apparatus. Under abnormal conditions, tungsten powder may present a fire hazard depending on particle size. Tungsten powder can be ignited in air by friction during blending, milling, etc. Fine powders may ignite spontaneously in air.

6. ACCIDENTAL RELEASE MEASURES

SMALL/LARGE SPILL: Scoop up while avoiding dust generation. Do not cause material to become airborne. Provide adequate ventilation to remain under PEL's. If TLV is exceeded, clean-up personnel need NIOSH-approved dust respirators. Vacuum or wet clean-up methods are recommended to reduce dust generation. Follow federal state and local regulations.

7. HANDLING AND STORAGE

HANDLING: Avoid breathing dust.
STORAGE: Keep container closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: General and local ventilation is recommended.
RESPIRATORY PROTECTION: A NIOSH approved dust respirator is required if TLV is exceeded.
SKIN AND HAND PROTECTION: Protective gloves recommended.
EYE AND FACE PROTECTION: Safety glasses are recommended.
OTHER PROTECTIVE EQUIPMENT: none required.

9. PHYSICAL AND CHEMICAL PROPERTIES

(For Tungsten/For Tin)

APPEARANCE: dull gray metal
BOILING POINT: 10652 F/5018 F (5900 C/2770 C)
FREEZE-MELT POINT: 6170 F/450 F (3410 C/232 C)
VAPOR PRESSURE: N/A
VAPOR DENSITY: N/A
SOLUBILITY IN WATER: Insoluble.
SPECIFIC GRAVITY: 14.5-16.0/7.3
pH: N/A
ODOR: None
PERCENT VOLATILES: N/A
EVAPORATION RATE: N/A

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.
INCOMPATIBILITY: Tungsten is very slightly soluble in Nitric Acid, Sulfuric Acid and aqua regia. It is soluble in a mixture of Hydrofluoric Acid and Nitric Acid. Vigorous reaction with Bromine Trifluoride. Lead Oxide mixed with Tungsten becomes incandescent upon heating. Tungsten becomes incandescent in cold Fluorine. Iodine Pentafluoride reacts spontaneously with Tungsten with incandescence. Avoid oxidizers.
Tin is incompatible with acids, bases and oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: None.
HAZARDOUS POLYMERIZATION: None.

11. TOXICOLOGICAL INFORMATION

None reported.

12. ECOLOGICAL INFORMATION

None available.

13. DISPOSAL CONSIDERATION

Dispose of in accordance with federal, state and local regulations.

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: Acute, Chronic

Section 313 Toxic Chemicals: None

CANADAIN REGULATIONS

WHMIS: Not regulated

16. OTHER INFORMATION

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: January 11, 2013

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