

Alpha Resources Inc.

Safety Data Sheet (SDS)

Revision Date: May 1, 2015

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Calcium Tungstate Furnace Reagent

AR2311

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 DANGER

SECTION 2— HAZARDS IDENTIFICATION

Hazard Class: Skin irritation (category 2), serious eye damage (category 1), and specific target organ toxicity-single exposure; respiratory system (category 3).

Hazard Statements: Causes skin irritation (H315), causes serious eye damage (H318), and may cause respiratory irritation (H335).

Precautionary Statements: Avoid breathing dust/fume/gas/mist/vapor/spray (P261), wash skin thoroughly after handling (P264), use only outdoors or in a well-ventilated area (P271), wear eye protection/face protection/protective gloves (P280), store in a well-ventilated place, keep container tightly closed (P403+P233), store locked up (P405), and dispose of contents/container to an approved waste disposal plant (P501).

First-Aid Statements: IF ON SKIN: wash with plenty of soap and water (P302+P352), IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing, call a POISON CENTER or doctor/physician if you feel unwell (P304+P340+P312), If skin irritation occurs: get medical advice/attention (P332+P313), and take off contaminated clothing and wash before reuse (P362).



SECTION 3— COMPOSITION, INFORMATION ON INGREDIENTS

Component	CAS #	Common %
Calcium Oxide	1305-78-8	>30
Kaolin	1332-58-7	>30
Tungsten Oxide	1314-35-8	>30

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 unconscious, check for breathing and apply artificial respiration if necessary. 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 soap and water (P302+P352). Take off contaminated clothing. If irritation persists, get medical attention.

If swallowed: Never give anything by mouth to an unconscious person. If swallowed, rinse mouth with water if person is conscious. Seek medical attention if large quantities were swallowed.

SECTION 5 — FIRE FIGHTING MEASURES

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

Auto-ignition Temperature: No data

Fire Fighting Instructions: Firefighters should wear positive pressure self-contained apparatus if necessary.

Full fire retardant clothing might be required depending on size of fire.

Specific Hazards Arising: Calcium oxide and Tungsten oxide

Hazardous Combustion Products: No data

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Person Precautions: Adequate ventilation is necessary to prevent over-exposure. Avoid contact with skin and eyes. Avoid production of dust if possible. If dust is formed, don't breathe in and if necessary use a respirator to protect from exposure. Don't breathe in gas/fumes/vapor/spray. Move personnel away from area if possible to a safer zone. Wear personal protection equipment such as safety glasses with side shields or goggles and appropriate gloves.

Small or large spill: Sweep, scoop, or vacuum material. Contain material in sealed vessel for disposal. Clean in a way that keeps dust creation to a minimum. Clean area with wet cloth and dispose properly.

Environmental Precautions: Avoid letting this material enter water ways or drains.

SECTION 7 — HANDLING AND STORAGE

Handling: Wear suitable person protective equipment. Exhaust should be in place when working with this material. If not possible an approved respirator should be worn. Wash hands after touching material. Don't breathe dust or vapor.

Store: In a cool dry place, keep sealed. Don't allow to be stored in areas of extreme temperature or humidity. Proper ventilation should be available where product is stored.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Component	CAS#	Value	Limits	Basis
Kaolin	1332-58-7	TWA	2mg/m ³	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Pneumoconiosis The value is for particulate matter containing no asbestos and < 1% crystalline silica Not classifiable as a human carcinogen		
		TWA	5mg/m ³	USA. NIOSH Recommended Exposure Limits
		Main constituent of Kaolin is Kaolinite		
		TWA	10mg/m ³	USA. NIOSH Recommended Exposure Limits
		TWA	15mg/m ³	USA. Occupational Exposure Limits (OSHA)-Table Z-1; Limits for Air contaminants.
		TWA	5mg/m ³	USA. Occupational Exposure Limits (OSHA)-Table Z-1; Limits for Air contaminants.

Component	CAS#	Value	Limit	Basis
Tungsten trioxide	1314-35-8	TWA	5 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)
		Lower Respiratory Tract irritation varies		
		STEL	10mg/m ³	USA. ACGIH Threshold Limit Values (TLV)
		TWA	5mg/m ³	USA. NIOSH Recommended Exposure Limits
		ST	10mg/m ³	USA. NIOSH Recommended Exposure Limits
Calcium oxide	1305-78-8	TWA	2mg/m ³	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation		
		TWA	2mg/m ³	USA. ACGIH Threshold Limit Values (TLV)
		TWA	5mg/m ³	USA. Occupational Exposure Limits (OSHA)-Table Z-1; Limits for Air contaminants.
		TWA	2mg/m ³	USA. NIOSH Recommended Exposure Limits

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). An approved NIOSH respirator must be work if exposure limits are excessive. An eye wash station should be in the area where material is processed or worked with. Use good industrial hygiene and safety practices.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White granular	Odorless	Relative Density: N/A
Soluble: N/A	pH: N/A	Melting Point: N/A

SECTION 10 — STABILITY AND REACTIVITY

Stability: Stable if stored or used at proper temperatures; should never become unstable.

Conditions to Avoid: No data

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition product: No data

Hazardous Polymerization: None under normal processing.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute Effects: No data

Skin corrosion/irritation: No data

Serious eye damage/irritation: No data

Respiratory irritation: No data

Toxicological Data: No data

Germ cell mutagenicity: No data

Carcinogenicity: Known to be human carcinogen (Kaolin): IARC/NTP

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicity Data: Don't release into drains.

Persistence and degradability: No data

Bioaccumulative potential: No data

Mobility in soil: No data

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste disposal should be done in compliance with existing federal, state and local environmental regulations.

This material isn't a hazardous waste.

SECTION 14 — TRANSPORT INFORMATION

DOT not regulated. IMDG not regulated.

IATA UN#: UN 1910 Class: 8 Packing group: III Proper shipping name: Calcium oxide

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 numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

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

Massachusetts RTK Components: Calcium oxide (CAS#1305-78-8) Kaolin (CAS#1332-58-7)

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

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)

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.