Revision Date: April 1, 2015

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Furnace Reagent

AR615

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

Hazards: Skin irritation (Category 2), serious eye damage (Category 1), specific target organ toxicitysingle exposure (Category 3) respiratory system.

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

Precautionary Statements: Avoid breathing dust/fume/gas/mist/vapors/spray (P261), wash skin thoroughly after handling (P264), use only outdoors or in well-ventilated area (P271), wear protective gloves/protective clothing (P280), if inhaled: remove victim to fresh air and keep at rest in a position comfortable for breathing. Calla poison center or doctor/physician if you feel unwell (P304+P340+P312), 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. Immediately call a poison center,(P305+P351+P338+P310), If skin irritation occurs get medical advice/attention (P332+P313), take off contaminated clothing and wash clothing before reuse (P362), store in a well-ventilated place and keep container tightly closed (P403+P233), store locked up (P405), and dispose of contents/container to an approved waste disposal plant (P501).

Hazards Not Classified by GHS: Reacts with water to form corrosive calcium hydroxide, with evolution of heat. Temperatures as high as 800°C have been recorded.

SECTION 3— COMPOSITION, INFORMATION ON INGREDIENTS

Component	CAS #	Common %
Calcium Oxide	1305-78-8	50
Kaolin	1332-58-7	50

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provision of paragraph (i).

SECTION 4— FIRST AID MEASURES

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). Seek medical attention, consult physician.

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). If persists seek medical attention and bring label. **If swallowed:** Wash out mouth with water if the person is able to do so. Call a doctor or poison center.

SECTION 5 — FIRE FIGHTING MEASURES

Appropriate Extinguishing Media: Use regular dry chemical, appropriate foam, CO2 or water spray.Inappropriate Extinguishing Media: N/ASpecific Hazards Arising from Chemical: Calcium OxideFire Fighting Instructions: Evacuate area. Firefighters should use standard protective equipment including self-
contained breathing apparatus.Flash Point: N/AAuto-ignition temperature: N/A

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use suitable personal protective equipment when cleaning up any spills. This should include chemical-resistant gloves, rubber boots, respirator, and safety eye protection.

Clean-up Method: Collect the material and dispose of according to local, regional, state, and federal regulations. Using damp cloth wipe up spill area. Avoid dust generation and breathing in vapors, mist, or gas.

SECTION 7 — HANDLING AND STORAGE

Handling: The potential for combustible dust formation should be taken into consideration before additional processing occurs. Avoid any contact with bare skin, clothing, and eyes. Avoid inhaling dust. Wash all areas after handling material. Proper ventilation is required when using this product.

Storage: This product should be stored in a cool, dry place and kept sealed (P233) when not in use. Don't release into environment.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limit Values:

Calcium Oxide, OSHA (PEL); 5mg/m³

ACGIH (TWA); 2mg/m^3

Kaolin, OSHA (PEL); resp. 5mg/m³ OSHA (PEL); total dust, 15mg/m³ ACGIH (TWA); resp. 2mg/m³ **Engineering Controls:** Proper ventilation must be available to be certain exposure limits are not exceeded.

Personal Protection: Wear a NIOSH applicable certified respirator to limit exposure to materials.

Hand Protection: Glove suitability will differ depending on the end use of product.

Eye protection: Safety glasses with side shields or safety goggles are necessary if splashing is possible. Eye wash station should be in close proximity to work area. Safety shower should also be nearby.

Skin and Body Protection: Chemical and oil resistant clothing are recommended for extended periods of contact. Avoid skin 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.

Appearance: Light yellow powder Melting Point: 2572 °C Vapor pressure: N/A Flash point: N/A Explosive limits, LEL (vol.%): N/A Odorless Relative Density: N/A Solubility: Insoluble in water Auto-Ignition Temperature: N/A Explosive limits, UEL (vol.%): N/A Specific Gravity: ~3.3 Vapor Density: ~1.8 Boiling Point: 2850 °C

SECTION 10 - STABILITY AND REACTIVITY

Stable material at normal laboratory conditions.

Avoid: Keep away from incompatible materials and moisture. Avoid dust generation.

Incompatible: Water, moisture, acids, oxidizing agents, halogens, alcohols, and fluorine.

Hazardous Decomposition Products: No data available

Hazardous Polymerization: None

SECTION 11 — TOXICOLOGICAL INFORMATION

Information on toxicological effects: Kaolin Oral LD50, Rat; >5000 mg/kg Dermal LD50, Rat; >5000 mg/kg Acute toxicity: Causes burning of the skin. Skin corrosion/irritation: Skin (human) resulted in a severe skin irritation. Serious eye damage/eye irritation: Eyes (rabbit) resulted in high risk for serious damage to eyes. Respiratory or skin sensitization: no data available Germ cell mutagenicity: no data available Carcinogenicity: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. 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 IARC. Reproductive toxicity: no data available Specific target organ toxicity - single exposure: Inhalation-may cause respiratory irritation. Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

SECTION 12 — ECOLOGICAL INFORMATION

Don't release into the environment. This material causes risk or hazardous effects to the environment. Eco-toxicity Data: No data Mobility in Soil: No data Bio-accumulative Potential: No data Persistence and Degradability: No data

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. A waste disposal company should be used to remove these types of materials.

SECTION 14 — TRANSPORT INFORMATION

For all shipping read safety instructions, SDS and emergency procedures before handling.

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DOT	UN number: UN1910 UN proper s		UN proper sl	hipping name: Calcium oxide	
Class: 8	Label: 8	Packing Group: III		Special provisions: IB8, IP3, T1, TP33	
Packaging exceptions: 154 Pac		Packag	ing non-bulk: 213	Packaging bulk: 240	
IATA	UN number: UN1910		UN proper shipping name: Calcium oxide		
Class: 8	Environmental Ha	zards: No	Packing Group: II	II ERG code: 8L	
IMDG	UN number: UN1910		UN proper shipping name: CALCIUM OXIDE		
Class: 8	Packing group: N/A		Marine pollutant: No		

SECTION 15 — REGULATORY INFORMATION

US federal regulations: This product is a hazardous Chemical as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. CERCLA (Superfund) reportable quantity: None Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Section 302 extremely hazardous substance: Not listed SARA 311/312 Hazardous chemical: No United States Toxic Substances Control Act (TSCA) Inventory: Yes US state regulations California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. **US. Massachusetts RTK - Substance List** CALCIUM OXIDE (CAS 1305-78-8) KAOLIN (CAS 1332-58-7) US. New Jersey Worker and Community Right-to-Know Act CALCIUM OXIDE (CAS 1305-78-8) KAOLIN (CAS 1332-58-7) US. Pennsylvania Worker and Community Right-to-KnowLaw CALCIUM OXIDE (CAS 1305-78-8) KAOLIN (CAS 1332-58-7) US. Rhode Island RTK: Not regulated.

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.