

Alpha Resources Inc.

Safety Data Sheet (SDS)

Revision Date: April 9, 2015

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Magnesium Oxide

AR144, AR2359

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

Hazard Category: none

Hazard Statements: none

Precautionary statements: none

This material isn't considered hazardous.

Potential health effects: Dust may irritate eyes causing redness, tearing, or conjunctivitis. Dust may irritate skin causing dryness, chapping, and dermatitis. Dust may irritate respiratory tract. Inhaling freshly generated fumes from material can result in metal fume fever.

SECTION 3— COMPOSITION, INFORMATION ON INGREDIENTS

Hazardous substance required for disclosure.

Component	CAS #	Common %
Magnesium Oxide	1309-48-4	<100

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). If not breathing give artificial respiration. Get 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 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

Non-flammable

Appropriate Extinguishing Media: Use regular dry chemical, alcohol resistant, or water spray.

Special hazard arising from substance or mixture: Magnesium Oxide

Fire Fighting Instructions: Not flammable or explosive. Wear protective clothing and if necessary use a self-contained breathing apparatus.

Flash Point: none

Auto-ignition temperature: none

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use suitable personal protective equipment when cleaning up any spills. Avoid dust creation. If vapors, mist or gas is present avoid inhalation.

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. Keep spill contained in closed vessel until disposal.

SECTION 7 — HANDLING AND STORAGE

Handling: Further processing of solid material could produce combustible dusts. Proper ventilation is required when using this product. Keep dust formation and inhalation to a minimum.

Storage: This product should be stored in a cool, dry well-ventilated place, and kept sealed when not in use.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limit Values:

Component	CAS#	Value	Control Limits	Basis
Magnesium oxide	1309-48-4	TWA	10mg/m³	ACGIH (TLV)
Remarks	Upper Respiratory Tract irritation	metal fume fever	not classifiable as a human carcinogen	
			10mg/m ³	ACGIH (TLV)
Remarks	Upper Respiratory Tract irritation	metal fume fever	not classifiable as a human carcinogen	
			15mg/m ³	OSHA-table Z-1 limits for air contaminants
Remarks		See appendix D-Substances with no established REL's		
			15mg/m ³	OSHA-table Z-1 limits for air contaminants

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 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.

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: white powder	Odorless	Specific Gravity: N/A
Melting Point: 2852°C	Relative Density: 3.58g/cm ³	Vapor Density: N/A
Vapor pressure: N/A	Solubility: Insoluble in water	Boiling Point: 3600°C
Explosive limits, LEL (vol.%): N/A	Explosive limits, UEL (vol.%): N/A	Evaporation rate: N/A

SECTION 10 — STABILITY AND REACTIVITY

Stable material at normal laboratory conditions.

Avoid: Keep away from incompatible materials. Material is sensitive to air.

Incompatible: Strong oxidizing agents, might react violently with phosphorous pentachloride, strong acids.

Hazardous Decomposition: None

Hazardous Polymerization: None

SECTION 11 — TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity: Carcinogenicity-Hamster-Intratracheal

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Sense Organs and Special Senses (nose, eye, ear, and taste):

Olfaction: Tumors. Lungs, Thorax, or Respiration: Tumors.

IARC/NTP/OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confined human carcinogen by IARC/NTP/OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Ingestion or inhalation of bulk amounts could result in a feverish reaction and leukocytosis, diarrhea.

SECTION 12 — ECOLOGICAL INFORMATION

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.

SECTION 14 — TRANSPORT INFORMATION

Not regulated for land/air/sea transport by DOT/IMDG/IATA

SECTION 15 — REGULATORY INFORMATION

U.S. Regulations:

CERCLA Sections 102a/103 (40 CFR 302.4): Not regulated.

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Section 313 (40 CFR 372.65): Not regulated.

OSHA Process Safety (29 CFR 1910.119): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE HEALTH: Yes

CHRONIC HEALTH: No

FIRE: No

REACTIVE: No

PRESSURE: No

U.S. TSCA Inventory: Listed

Canadian Regulations: WHMIS: 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.