## ALB Materials Inc. Safety Data Sheet Lithium Oxide

1. Product and Company Identification

Trade Name: Lithium oxide

Chemical Formula: Li<sub>2</sub>O

Recommended Use: Scientific research and development

Manufacturer/Supplier: ALB Materials Inc

Street: 2360 Corporate Circle. Suite 400

City: Henderson
State: Nevada
Zip Code: 89074
Country: USA

Tel #: +1-702-983-3769

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H314+H318 Causes severe skin and eye damage

Precautionary Statements: P260 Do not breathing dust/fume/vapor

P305+P351 If in eyes: Rinse cautiously with water for several minutes. P303+P361 If on skin or hair: Take off contaminated clothing and rinse P301+P330+P331 If swallowed: Rinse mouth. Do not induce vomiting.

HMIS Health Ratings (0-4):

Health: 3
Flammability: 0
Physical: 1

3. Composition

Chemical Family: Ceramic
Additional Names: Lithia, Kickerite

Lithium oxide (Li<sub>2</sub>O):

Percentage: 100 wt% CAS #: 12057-24-8 EC #: 235-019-5

4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Seek medical attention. Rinse mouth. Do not induce vomiting.
Skin:	Wash affected area with mild soap and water. Remove any
Eyes:	contaminated clothing.
	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for surrounding material and type of fire.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
	clothing to prevent contact with skin and eyes. See section 10 for
	decomposition products.
	6. Accidental Release Measures
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in
	special protection information. Isolate spill area and provide
	ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal.
	Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from
	materials and conditions listed in section 10.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before
	eating and smoking. Do not blow dust off clothing or skin with compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below
	threshold limit.
8.	Exposure Controls and Personal Protection
Permissible Exposure Limits:	N/A
Threshold Limit Value:	N/A
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long
	sleeves/pants.

9. Physical and Chemical Characteristics	
Color	White
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Reacts
Boiling Point:	N/A
Melting Point:	1427 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	2.013 g/cc
Molecular weight:	29.88 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents, Acids, Water
Incompatible Conditions:	Moisture, Air
Hazardous Decomposition Products:	Metal oxide fume
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious damage
Skin:	Causes serious burns
Ingestion:	Danger of perforation of esophagus and stomach
Inhalation:	Causes serious burns
Chronic:	N/A
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	N/A
	13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation

CORROSIVE 8

Hazard Class: 8 Corrosive substances

Packing Group: II UN Number: UN3262

Proper Shipping Name: Corrosive solid, basic, inorganic, n.o.s. (lithium oxide)

15. Regulatory Information

Sec 302 Extremely Hazardous: No
Sec 304 Reportable Quantities: N/A
Sec 313 Toxic Chemicals: No

## 16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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