

## LTS Research Laboratories, Inc. Safety Data Sheet Calcium Oxide

1. Product and Company Identification	
Trade Name:	Calcium oxide
Chemical Formula:	CaO
Recommended Use:	Scientific research and development
Manufacturer/Supplier:	LTS Research Laboratories, Inc.
Street:	37 Ramland Road
City:	Orangeburg
State:	New York
Zip Code:	10962
Country:	USA
Tel #:	845-587-2436 / 845-lts-chem
24-Hour Emergency Contact:	800-424-9300 (US & Canada) +1-703-527-3887 (International)
	2. Hazards Identification
Signal Word:	Danger
Hazard Statements:	H314: Causes severe skin burns and eye damage
	H319 Causes serious eye irritation
Precautionary Statements:	P260: Do not breathe dust/fume/gas/mist/vapours/spray
r recultional y Statemonts.	P303+P361+P353: IF ON SKIN (or hair): Remove/Take off
	immediately all contaminated clothing. Rinse skin with water/shower
	P305+P351+P338: IF IN EYES: Rinse cautiously with water for
	several minutes. Remove contact lenses if present and easy to do –
	continue rinsing
	P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce
	vomiting
	P405: Store locked up
	P501: Dispose of contents/container in accordance with
	local/regional/national/international regulations
HMIS Health Ratings (0-4):	
Health:	3
Flammability:	0
Physical:	1
	3. Composition
Chemical Family:	Ceramic
Chemical Family: Additional Names:	Ceramic Calcium(II) oxide
Additional Names: Calcium oxide (CaO):	Calcium(II) oxide
Additional Names:	

4. First Aid Procedures		
General Treatment:	Seek medical attention if symptoms persist.	
Special Treatment:	None	
Important Symptoms:	Causes severe skin burns.	
	Causes serious eye damage.	
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.	
<b>T</b>	Seek immediate medical attention.	
Ingestion: Skin:	Do not induce vomiting. Seek immediate medical attention. Wash affected area with mild soap and water. Remove any	
SKIII.	contaminated clothing. Seek immediate medical attention.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove	
	contact lenses if present and easy to do. Continue rinsing. Seek	
	immediate medical attention.	
	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.	
	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.	
Environmental Precautions:	Take care not to raise dust. Isolate runoff to prevent environmental pollution.	
	Isolate fution to prevent environmental pollution.	
	7. Handling and Storage	
Handling Conditions:	Handle under dry protective gas. Wash thoroughly after handling.	
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store under dry	
Work/Hugiania Maintananaa	inert gas. Store apart from materials and conditions listed in section 10 Do not use tobacco or food in work area. Wash thoroughly before	
Work/Hygienic Maintenance:	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:	$5 \text{ mg/m}^3$ as CaO, long-term value	
Threshold Limit Value:	$2 \text{ mg/m}^3$ as CaO, long-term value	
Special Equipment:	None	
Respiratory Protection:	Dust Respirator	
Protective Gloves:	Rubber gloves	
Eye Protection:	Safety glasses or goggles, Full face protection	
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.	
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9. P	hysical and Chemical Characteristics
Color	White
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Soluble, exothermic reaction with water
Boiling Point:	2850 °C
Melting Point:	2572 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	3.25-3.37 g/cc
Molecular weight:	56.07 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Acids, Halogens, Water, Oxidizing agents
Incompatible Conditions:	Air, Water/moisture
Hazardous Decomposition Products:	Metal oxide fume
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	N/A
Signs & Symptoms:	N/A C-C-Research
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 as pieces/powder only
Hazard Class:	8 Corrosive substances
Packing Group:	III
UN Number:	UN1910
Proper Shipping Name:	Calcium oxide
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A
Sec 313 Toxic Chemicals:	Yes

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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