

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

	1. Product and Company Identification
Trade Name: Chemical Formula:	Calcium iron oxide CaFe ₂ O ₄
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: Tel #:	USA 855-587-2436 / 855-lts-chem
24-Hour Emergency Contact:	800-424-9300 (US & Canada)
	+1-703-527-3887 (International)
	2. Hazards Identification
Signal Word:	Danger
Hazard Statements:	H315 Causes skin irritation H319 Causes serious eye irritation
Precautionary Statements:	 P260: Do not breathe dust/fume/gas/mist/vapours/spray 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
Additional Names:	Calcium Ferrite
Calcium oxide (CaO)	
Percentage:	0-100 wt%
CAS #:	1305-78-8
EC #:	215-138-9
Iron(II) oxide (FeO):	
Percentage:	0-100 wt%
CAS #:	1345-25-1
EC #:	215-721-8
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	Causes sever skin burns.
	Causes serious eye damage.
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult. If
	unconscious, place patient stably in side position for transportation.
	Seek immediate medical advice.
Ingestion:	Drink copious amounts water, do not induce vomiting. Seek immediate
	medical advice.
Skin:	Wash affected area with mild soap and water. Remove any
	contaminated clothing. Seek immediate medical advice.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
5	contact lenses if present and easy to do. Continue rinsing. Seek
	immediate medical advice.
	5. Firefighting Measures
	Non-flammable
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for
0	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
ī	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.

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
	inert gas. 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
XZ (11.)	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.
	threshold mint.
8. Expo	osure Controls and Personal Protection
Permissible Exposure Limits:	1 mg/m ³ as Fe, long-term value
Threshold Limit Value:	1 mg/m ³ as Fe, long-term value
Constal Fordament	N
Special Equipment:	None Durat Description
Respiratory Protection: Protective Gloves:	Dust Respirator
Eye Protection:	Rubber gloves Safety glasses or goggles, Full face protection.
Body Protection:	Protective work clothing. Wear close-toed shoes and long
body Protection.	sleeves/pants.
	sice res parts.
9. Ph	ysical and Chemical Characteristics
Color	Off-white
Form:	Sputtering target
Odor:	Odorless Bespace
Water Solubility:	Reacts
Boiling Point:	2850 °C
Melting Point:	2572 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density: Malagular weight:	3.25-3.38 g/cm3
Molecular weight:	215.76 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Acids, Water, Halogens, Oxidizing agents
Incompatible Conditions:	Air, Water/moisture
Hazardous Decomposition Products:	Metal oxide fume

11. Toxicological Information

Potential Health Effects:	
Eyes:	Causes serious eye damage
Skin:	Causes severe skin burns
Ingestion:	Corrosive effect on mouth and throat. Danger of perforation of
Inhalation:	esophagus and stomach May cause irritation
Chronic:	N/A
chrome.	1 1/ 1 1
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
Dispose of in accordance with local, state	13. Disposal Considerations e, national, and international regulations.
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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.

Document Last Revised: