

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

1. Product and Company Identification Trade Name: Calcium manganese oxide Chemical Formula: CaMnO₃ Recommended Use: Scientific research and development Manufacturer/Supplier: LTS Research Laboratories, Inc. Street: 37 Ramland Road City: Orangeburg State: New York 10962 Zip Code: Country: **USA** Tel #: 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. H335: May cause respiratory irritation H312: Harmful in contact with skin H314: Causes severe skin burns and eye damage **Precautionary Statements:** P260: Do not breathe dust/fume/gas/mist/vapours/spray P280: Wear protective gloves/protective clothing/eye protection/face protection P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting 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. P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P501: Dispose of contents/container in accordance with local/regional/national/international regulations

P405: Store locked up

3

0

1

HMIS Health Ratings (0-4): Health: Flammability: Physical:

3. Composition				
Chemical Family:	Ceramic			
Additional Names:	None			
Calcium manganese oxide (CaMnO ₃):				
Percentage:	100 wt%			
CAS #:	NIL			
EC #:	NIL			
	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:	Give one to two glasses of water and induce vomiting. Never induce			
	vomiting or give anything by mouth to an unconscious person.			
Skin:	Wash affected area with mild soap and water. Remove any			
-	contaminated clothing.			
Eyes:	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.			
E	Take care not to raise dust.			
Environmental Precautions:	Isolate runoff 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			
XX7 - J /IX	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 compressed air.			
	COMDITESSED AIT			
Ventilation:	Provide sufficient ventilation to maintain concentration at or below			

8. Exposure Controls and Personal Protection				
Permissible Exposure Limits:	5 mg/m ³ as CaO, long-term value			
Threshold Limit Value:	2 mg/m^3 as CaO, long-term value			
Special Equipment:	None			
Respiratory Protection:	Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a			
	backup to engineering controls. Risk assessment should be performed			
	to determine if air-purifying respirators are appropriate. Only use			
	equipment tested and approved under appropriate government			
Drata sting Classes	standards. Nitrile rubber, NBR 0.11mm thick.			
Protective Gloves:				
Eye Protection:	Safety glasses or goggles			
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.			
9. P	hysical and Chemical Characteristics			
Color	Grev			
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts			
Odor:	Odorless			
Water Solubility:	Insoluble			
Boiling Point:	N/A			
Melting Point:	N/A			
Flash Point:	N/A			
Autoignition Temperature:	N/A			
Density:	N/A			
Molecular weight:	143.01 g/mol			
	10. Reactivity atomes, Inc.			
Stability:	Stable under recommended storage conditions			
Reacts With:	Acids, 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:	May cause irritation			
Inhalation:	May cause irritation			
Chronic:	N/Å			
Signs & Symptoms:	N/A			
Aggravated Medical Conditions:	N/A			
Median Lethal Dose:	N/A			
Carcinogen:	EPA-D: Not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data are available			
	12. Ecological Information			
Aquatic Toxicity:	Low			
Persistent Bioaccumulation Toxicity:	No			
Very Persistent, Very Bioaccumulative:	No			
Notes:	N/A			

13. Disposal Considerations	13.	Dis	posal	Cons	iderat	ions
-----------------------------	-----	-----	-------	------	--------	------

14. Transportation Data				
Hazardous: Hazardous as powder.				
Hazard Class:	8 Corrosive substances			
Packing Group:	III			
UN Number:	UN1759			
Proper Shipping Name:	Corrosive solids, n.o.s. (Calcium manganese oxide)			
	15. Regulatory Information			
Sec 302 Extremely Hazardous:	No			
Sec 304 Reportable Quantities:	N/A			
Sec 313 Toxic Chemicals:	Yes			
	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.

Document Last Revised:

07/20/2015