SAFETY DATA SHEET

Page E1 of E2

Section 1 Chemical Product and Company Identification

CHEMTREC 24 Hour Emergency USA Roreal Science Phone Number (800) 424-9300 5100 West Henrietta Rd 399 Vansickle Road For laboratory and industrial use only. PO Box 92912 St. Catherines, Ontario Rochester, NY 14692-9012 Tel: (800) 962-2660 L2S 3T4 Canada Tel: (800) 387-9393 Not for drug, food or household use. CALCIUM OXIDE Product Synonyms Lime / Quick Lime / Burnt LIme Section 2 Hazards Identification Signal word: DANGER Precautionary statement: Pictograms: GHS05 / GHS07 P261: Avoid breathing dust Target organs: Respiratory system, Eyes, Skin, Mucous membranes P264: Wash hands thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water and soap. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **GHS Classification:** P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position Skin irritation (Category 2) comfortable for breathing. Eye damage (Category 1) P310: Immediately call a POISON CENTER or doctor. STOT-SE (Category 3) P312: Call a POISON CENTER or doctor/physician if you feel unwell. P332+P313: If skin irritation occurs: Get medical advice/attention. GHS Label information: Hazard statement: P337+P313: If eye irritation persists: Get medical advice/attention. H315: Causes skin irritation. P362+P364: Take off contaminated clothing and wash before reuse. H318: Causes serious eye damage. P403+P233: Store in a well-ventilated place. Keep container tightly closed. H335: May cause respiratory irritation. P405: Store locked up. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Reacts with water to from corrosive calcium hydroxide and releases large amount heat Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	Composition / Information on Ingredients						
Chemical Name		CAS #	%	EINECS			
Calcium oxide		1305-78-8	100%	215-138-9			
Section 4	First Aid Measures						

INGESTION: HARMFUL IF SWALLOWED. CAUSES SEVERE GASTROINTESTINAL TRACT IRRITATION AND/OR BURNS. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: HARMFUL IF INHALED. CAUSES SEVERE RESPIRATORY TRACT IRRITATION AND/OR BURNS. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES SERIOUS EYE IRRITATION AND/OR BURNS. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: CAUSES SKIN IRRITATION AND/OR BURNS. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: DO NOT use carbon dioxide or halogenated agents. Use flooding amounts of water as spray to absorb the heat generated.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Reacts with water to release heat and form alkaline solution. Contact with water or moisture may generate sufficient heat to ignite combustible materials. Product will swell with moisture and may burst containers.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8	Exposure Controls / Personal Pro	tection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	Calcium oxide	TWA: 2 mg/m ³	TWA: 5 mg/m ³	TWA: 2 mg/m ³

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 9							
• • • • • • • • •	Physical & Chemical Prope	erties					
Odor: Earthy odor. Odor threshold: D pH: Data not availa	oata not available. able. point: 2572°C (4662°F) 0°C (5162°F)	Flammability Explosion lim Vapor pressur Vapor density Relative dens	ate (=1): Not applic. (solid/gas): Not applic its: Lower / Upper: N re (mm Hg): Data not (Air = 1): Data not av ity (Specific gravity): Slightly soluble in water	cable lot applicable available railable 3.2-3.4	Auto-igniti Decompos Viscosity: Molecular		Data not available e: Data not available.
Section 10	Stability & Reactivity						
Chemical stability Conditions to avo	:Stable id: Protect from water, moisture a		ous polymerization: uct will swell and gener		ened.		
perchlorates, nitrate	erials: Ethanol, boric acid and cale es and permanganates, acids. Re	acts with water	to form calcium hydrox	ide and heat. React			
Hazardous decom	position products: Thermal deco	omposition resu	It in Calcium hydroxide	e .			
Section 11	Toxicological Information						
IARC: No compone OSHA: No compone Reproductive toxi STOT-single expo STOT-repeated ex Aspiration hazard Potential health el Inhalation: Inhalati	on may cause severe irritation of t	greater than or s greater than c classified as s	equal to 0.1% is ident r equal to 0.1% is iden pecific target organ tox	ified as probable, po tified as a carcinoge icant, single exposu	ssible or confi n or potential e, category 3	rmed human carci carcinogen by OS	HA.
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Section 16 **Other Information**

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook. Form 06/2015