SAFETY DATA SHEET

Chemical Product and Company Information

GENERAL STORAGE CODE GREEN

Section 1

 80 Northwest Blvd. Nashua. NH 03063

(800) 225-3739

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CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.

Product CALCIUM CHLORIDE, DIHYDRATE

Synonyms Calcium Chloride, Hydrated Section 2 Hazards Identification

Signal word: WARNING Pictograms: GHS07 Target organs: None known



GHS Classification: Eye irritation (Category 2A)

GHS Label information: Hazard statement: H319: Causes serious eye irritation.

Precautionary statement:

P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical attention.

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 3	Composition / Information on Ingredients						
Chemical Name		CAS #	%	EINECS			
Calcium chloride, dihydrate		10035-04-8	100%	233-140-8 (anhydrous)			
Contains:							
Calcium chloride, anhydrous		10043-52-4	77-80%	233-140-8			
Water		7732-18-5	15-20%	231-791-2			
Potassium chloride		7447-40-7	2-3%	231-211-8			
Sodium chloride		7647-14-5	1-2%	231-598-3			

Section 4 First Aid Measures

INGESTION: MAY BE HARMFUL IF SWALLOWED. 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: 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. 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: MAY CAUSE IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

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. Heat is generated when product mixes with water.

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: Hygroscopic material. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8	Exposure Controls / Personal Protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
	Particulates not otherwise classified	None established	TWA: 15 mg/m ³ total dust	None established		

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 Prop	perties	
Appearance: Solid. White flakes. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: 772°C (1422°F) Boiling point: Data not available Flash point: Not applicable	Evaporation rate (=1): Not applicable Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Not applicable Vapor pressure (mm Hg): Negligible Vapor density (Air = 1): Data not available Relative density (Specific gravity): Data not available Solubility(ies): Soluble in water.	Partition coefficient: Not applicable Auto-ignition temperature: Not applicable Decomposition temperature: Data not available. Viscosity: Data not available. Molecular formula: CaCl ₂ •2H ₂ O Molecular weight: 147.02
Section 10 Stability & Reactivity		

Chemical stability: Stable

ERG: Emergency Response Guidebook.

Hazardous polymerization: Will not occur.

Conditions to avoid: Hygroscopic material. Avoid moisture

Incompatible materials: Heat is generated when mixed with water. Spattering and boiling can occur. Avoid contact with sulfuric acid. Corrosive when wet. Flammable hydrogen may be generated from contact with metals such as zinc and sodium.

Hazardous decomposition products: None known.

Section 11 **Toxicological Information**

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•	al-rat LD50: 2100 mg/kg ; Dermal-i	abbit LD50: >	5000 mg/kg					
	Skin corrosion/irritation: Data not available							
	Serious eye damage/irritation: Data not available							
• •	sensitization: Data not available							
•	Germ cell mutagenicity: Data not available							
• •	Carcinogenity: Data not available							
	NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.							
	OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.							
Reproductive toxicity: Data not available								
STOT-single expos	STOT-single exposure: Data not available							
STOT-repeated exp	STOT-repeated exposure: Data not available							
Aspiration hazard: Data not available								
Potential health eff								
Inhalation: Dust may cause irritation to the upper respiratory tract (nose and throat).								
•	Ingestion: Low toxicity if swallowed. However, large amounts may result in gastrointestinal irritation or ulceration. Skin: Contact with skin may cause irritation and/or defatting on prolonged contact.							
	eyes may cause severe irritation and							
•	ns of exposure: See Potential hea							
• • •	tion: RTECS #: EV9810000							
Section 12	Ecological Information							
Toxicity to daphnia Toxicity to algae: N Persistence and de Mobility in soil: No	e gradability: No data available o data available	Daphnia mag Bioaccumu PBT and vi	na (water flea), LC50 ulative potential: No PvB assessment: N	data available o data available	or disposal			
Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Section 13 Disposal Considerations								
These disposal gu	idelines are intended for the dis e different. Dispose of in accord	posal of cata	log-size quantities of	only. Federal regulations o	lations may a	pply to empty cor	ntainer. State and/or local	
Section 14	Transport Information			ierar regulations o	r contract with	ra licenseu chem	ical disposal agency.	
	•		lat Da sudata d					
UN/NA number:		•	Not Regulated	Dementable Ou		Mari	ine nellutenti. Ne	
	Hazard class: Not applicable Packing group: Not applicable Reportable Quantity: Marine pollutant: No							
Exceptions: No	••	KG Guide #	Not applicable					
Section 15	Regulatory Information							
	ed to be listed if the CAS number for the	-						
Compon	ent	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification	
Calcium chloride		Listed	Not listed	Not listed	Listed	Not listed	D2B	
Section 16	Additional Information							
dent determinations of	ned herein is furnished without warranty suitability and completeness of information of the page of th	on from all sour	ces to assure proper use	e of these materials and	d the safety and I	nealth of employees.	NTP: National Toxicology Program,	