




Safety Data Sheet

CALCIUM CHLORIDE, LIQUID

Conforms to OSHA CFR 29 1910.1200 and aligns to the United Nations Globally Harmonized System.
Conforms to the United Nations Regulation Globally Harmonized System.

1. Product and Company Identification				
MERIDIAN CHEMICALS, LLC 10955 Lowell Suite 600 Overland Park, KS 66210 Phone: 913-253-2220 Fax: 913-253-2221	CHEMTREC (24-Hr Emergency Response):		U.S. Toll Free (800) 424-9300 +1 (703) 527-3887 (Collect Calls Accepted)	
	Poison Control		(800) 222-1222	
	Non-emergency Service	Customer	(281) 210-1575	
Synonyms:	Calcium Dichloride; Calol; Calplus			
Chemical Family:	Inorganic salt			
Recommended Use:	Deicing agent; road stabilization; dust control; industrial processing; accelerator in concrete, oil and gas well fluid			
SDS Creation Date:	May 15, 2013			
SDS Revision Date	February 1, 2019			
2. Hazards Identification				
HMIS Ratings (Scale of 1 to 4)	Health: 1	Fire: 0	Reactivity: 0	Other: N/A
NFPA Ratings (Scale of 1 to 4)	Health: 1	Fire: 0	Reactivity: 0	Other: N/A
Signal Word/Pictogram : Warning 	Hazard Statements		Classification/Category	
	Causes serious eye irritation. Harmful if swallowed. Causes skin irritation.		Eye damage/Irritation Category 2A Acute toxicity, oral Category 4 Skin corrosion/Irritation Category 2	
Other:	May produce minor skin irritation and dry skin.			
Precautionary Statements				
Prevention Statements	Do not get in eyes or skin. Wear protective equipment for eye and skin exposure. Wear protective gloves.			
Response Statements	Flush eyes cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Remove contaminated clothing and wash before reuse. Rinse and then wash skin with soap and water.			
Primary Routes of Exposure	Exposure can occur from mist and liquid contact.			
Target Organs	Eye and skin			
Signs and Symptoms of Exposure	Severe irritation to eyes results from direct contact. May cause slight to moderate irritation after prolonged exposure. Mist inhalation may cause upper respiratory tract irritation. May irritate gastrointestinal tract and cause nausea and vomiting.			
Medical Conditions Generally Aggravated by Exposure	None Available.			
Carcinogen Status	Not a carcinogen.			



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3. Composition/Information on Ingredients		
CAS Number:	Weight Percent	Ingredient Name
10043-52-4	10 to 40	Calcium Chloride
1305-62-0	<1	Calcium Hydroxide
7732-18-5	10 to 90	Water
4. First Aid Measures		
Skin Contact:	Remove contaminated clothes and wash before reuse. Rinse and then wash skin with soap and large quantities of water.	
Eye Contact:	Flush eyes cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Seek medical attention.	
Inhalation:	Mist inhalation may cause upper respiratory tract irritation.	
Ingestion:	Do not induce vomiting. May irritate gastrointestinal tract and cause nausea and vomiting.	
Notes to Physician:	Not available.	
5. Fire Fighting Measures		
Flash Point: (COC)	Not flammable	
Extinguishing Media:	Use any means suitable for extinguishing the surrounding fire	
Fire Fighting:	In the event of a fire, wear full-protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. At high temperatures or when moistened under fire conditions, calcium chloride may produce toxic or irritating fumes	
Fire and Explosion Hazard:	None	
Products of Combustion:	Thermal decomposition products may include toxic and corrosive fumes including hydrogen chloride.	
6. Accidental Release Measures		
Evacuation and Safety:	Do not touch spilled material. For small spills, contain with an inert material (paper towels, spill control pillows, absorbent particulate). DO NOT neutralize with acid. In the event of a large spill, contain by diluting with dry sand, sorbent booms, or other absorbent material. Isolate hazard area and deny entry.	
Containment of Spill:	Prevent runoff into sewers, storm drains, surface waters, and soil. Follow facility-specific procedures for spill response. Isolate spill and ventilate the area.	
Clean-up and Disposal:	When cleaning spill, wear appropriate personal protective equipment including splash-proof safety goggles, chemical-resistant gloves, and rubber boots. Move containers from spill area. Keep unnecessary people away.	
7. Handling and Storage		
Handling:	Handle in accordance with good hygiene and safety procedures. Avoid inhalation, contact with eyes, skin or clothing.	
Storage:	Keep in a tightly closed container, stored in a cool, dry, ventilated area. Containers of this material may be hazardous when empty because they retain product residues (dusts, solids); observe all warnings and precautions listed for the product.	



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8. Exposure Controls/Personal Protection	
Engineering Controls:	Provide local exhaust ventilation system. Where there is any possibility that an employee's eyes and/or skin may be exposed to this substance, the employer should provide an eye wash fountain and quick-drench shower within the immediate work area for emergency use.
Exposure Limits:	ACGIH – (TLV-TWA) Guidelines for nuisance particulate (liquefied mist): 10 mg/m ³ .
Personal Protective Equipment (PPE)	
Eyes:	Employee must wear chemical splash goggles or a face shield.
Hands and Feet:	Employee must wear appropriate protective gloves, such as neoprene or butyl gloves or gauntlets, to prevent contact with this substance.
Body:	Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.
Respiratory:	Employee must wear a dust mask if calcium chloride dust is present.
9. Physical and Chemical Properties	
Description	Clear colorless liquid.
Odor:	None
Odor Threshold:	Not Applicable
pH (5% water solution)	7.0 to 9.0
Boiling Point:	N/A
Melting Point:	Not available
Relative Density	34% - 1.34 at 68°F 45% - 1.45 at 68°F
Water Solubility:	100% soluble in water.
Vapor Density (air = 1)	Not available
Freezing Point:	Not available
Flash Point:	Not applicable
Lower/upper Flame Limits	Not applicable
Auto-ignition Temperature:	Not applicable
10. Stability and Reactivity	
Stability and Reactivity:	Stable under normal temperatures and pressures.
Possible Hazardous Reactions	Could react with strong reducing or oxidizing agents.
Incompatibilities:	Strong acids. Contact with strong acids can lead to the release of hydrogen chloride gas. Incompatible with methyl vinyl ether, zinc, bromine trifluoride, mixtures of lime and boric acid, barium chloride, and 2-furan percarboxylic acid. Metals will slowly corrode. Aluminum (and alloys) and yellow brass will be attacked by calcium chloride solutions
Hazardous decomposition products	Thermal decomposition products may include toxic and corrosive fumes including hydrogen chloride.
11. Toxicological Information	
Likely routes of Exposure	Contact with liquid and/or inhalation of mist.
Symptoms related to the physical, chemical, and toxicological characteristics	Severe irritation to eyes results from direct contact. May cause slight to moderate irritation after prolonged exposure. Mist inhalation may cause upper respiratory tract irritation. May irritate gastrointestinal tract and cause nausea and vomiting.



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11. Toxicological Information, cont.			
Oral, Mouse, ICR-SLC, LD ₅₀	Male 2,045 mg/Kg; Female 1,940 mg/Kg body weight		
Oral, Rat, Wistar, LD ₅₀	Male 3,798 mg/Kg; Female 4,179 mg/Kg body weight		
Oral, N.Z. White Rabbit, LD ₅₀	Male 500-1000 mg/Kg body weight		
S.C., Rat, Wistar, LD ₅₀	Male 2,630 mg/Kg; Female 3,798 mg/Kg body weight		
I.P., Rat, Wistar, LD ₅₀	Male 264 mg/Kg; Female 342 mg/Kg body weight		
Carcinogen status	OSHA – Not Listed	NTP – Not Listed	IARC – Not Listed
12. Ecological Information			
Not acutely toxic to aquatic organisms			
13. Disposal Information			
Follow all federal, state, and local regulations when disposing of this substance.			
14. Department of Transportation (DOT) Transport Information			
Shipping Name:	Not Regulated		
ID Number:	N/A		
Hazard Class or Division:	N/A		
Packing Group:	N/A		
Labeling Requirements:	N/A		
Packing Authorizations:			
Exceptions:	N/A		
Non-Bulk Packing:	N/A		
Bulk Packing:	N/A		
Quantity Limitations:			
Passenger Aircraft:	N/A		
Cargo Aircraft Only:	N/A		
Vessel Stowage Requirements:	N/A		
Emergency Guide Number:	N/A		
15. Regulatory Information			
OSHA Process Safety:	Not Listed		
SARA Title III:	Not Listed		
TSCA Status:	Listed		
CERCLA:	Not Listed		
EINECS Status:	Listed		
California Proposition 65:	Not Listed		
WHMIS Classification	D2B		
16: Other Information			
<p>This SDS is furnished independent of product sale. Every effort was made to accurately describe this product. However, some of the data are obtained from sources beyond Meridian Chemicals, LLC direct supervision. We cannot make any assertions as to its reliability or completeness. Therefore, the user may rely on it only at user's risk. We have made no effort to censor or conceal deleterious aspects of this product. Since Meridian Chemicals, LLC cannot anticipate or control the conditions under which this information and product may be used, we make no guarantee that the precautions we have suggested will be adequate for all individuals and/or situations. It is the obligation of each user of this product to comply with the requirements of all applicable laws regarding the use and disposal of this product. Additional information will be furnished upon request to assist the user; however, no</p>			



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