



## Hazard Communication Safety Data Sheet

### CALCIUM CHLORIDE LIQUID

1. Product and Company Identification				
Raider Pumping Services LP dba Raider Fluids PO Box 12366 College Station, TX 77842 817 – 538—8993 Fax 866 – 526-5853		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 Customer Service	817-538-8993	
Synonyms:		Calcium Dichloride		
Chemical Family:		Inorganic Salt		
Recommended Use:		Deicing agent; road stabilization; dust control; industrial processing; accelerator in concrete; oil and gas well fluid		
HCSDS Creation Date:		September 19, 2011		
HCSDS Revision Date:		March 23, 2015		
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:	Warning			
EMERGENCY OVERVIEW:		Exposure can occur from mist and liquid contact		
Potential Health Effects:				
Skin contact:	May cause slight to moderate irritation after prolonged (24 hour) exposure			
Eye contact:	Severe irritation to eyes results from direct contact			
Inhalation:	Mist inhalation may cause upper respiratory tract irritation			
Ingestion:	May irritate gastrointestinal tract and cause nausea and vomiting.			
3. Composition/Information on Ingredients				
CAS Number:	Weight Percent		Ingredient Name	
10043-52-4	35 to 42 wt%		Calcium Chloride	
7732-18-5	58 to 65 wt%		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:	Remove exposed individual to fresh air and keep comfortable for breathing.			
Ingestion:	Rinse mouth with water several times. Drink water.			
Notes to Physician:	Exposure may aggravate pre-existing skin, eye and respiratory disorders. Excessive exposure to sodium may adversely affect persons with pre-existing conditions.			



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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 face piece 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 (dust, solids); observe all warnings and precautions for the product.
8. Exposure Controls/Personal Protection	
Engineering Controls:	Provide local exhaust ventilation system. Where there is any possibility than 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 <sup>3</sup> .
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:	Not applicable.



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9. Physical and Chemical Properties	
Description:	Clear, colorless liquid with no odor
Odor:	None
Boiling Point:	34% - 237.2° F (114°C) 45% - 257.0° F (125° C)
Melting Point:	Not available
Specific Gravity (H <sub>2</sub> O=1):	34% - 1.34 at 68° F (20°C) 45% - 1.45 at 68° F (20° C)
pH (5% water solution)	7.0 to 9.0
Water Solubility:	100% soluble in water. Other solvents not available.
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.
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.
11. Toxicological Information	
Toxicity Data (anhydride powder)	
Oral, Mouse, ICR-SLC, LD <sub>50</sub>	Male, 2045 mg/Kg; Female 1,940 mg/Kg body weight
Oral, Rat, Wistar, LD <sub>50</sub>	Male, 3,798 mg/Kg; Female 4,179 mg/Kg body weight
Oral, N.Z. White Rabbit, LD <sub>50</sub>	Male 500-1,000 mg/Kg body weight
S.C., Rat, Wistar, LD <sub>50</sub>	Male, 2,630 mg/Kg; Female 3,798 mg/Kg body weight
I.P.; Rat, Wistar, LD <sub>50</sub>	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
Labelling Requirements	N/A
Packing Authorizations:	
Exceptions:	N/A
Bulk, Non-Bulk Packing:	N/A



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<b>14. Department of Transportation (DOT) (continued from pg 3)</b>	
Quantity Limitations:	
Passenger Aircraft:	N/A
Cargo Aircraft Only:	N/A
Vessel Stowage Requirements:	N/A
Emergency Guide Number:	N/A
<b>15. Regulatory Information</b>	
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
<b>16. Other Information</b>	
<p>This HCSDS 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 Raider Fluids 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 Raider Fluids 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 warranty, either expressed or implied, nor liability of any nature with respect to this product or to the data herein is made or incurred hereunder.</p>	
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