

# CALCIUM CHLORATE

CCC

CAUTIONARY RESPONSE INFORMATION			
Common Synonyms	Solid	White	Odorless
Sinks and mixes with water.			
	<p>Evacuate. Keep people away. Shut off ignition sources and call fire department. Avoid contact with solid and dust. Notify local health and pollution control agencies. Protect water intakes.</p>		
Fire	<p>Not flammable. May explode on contact with combustibles. Irritating gases may be produced when heated. Combat fires from safe distance or protected location. Flood discharge area with water.</p>		
Exposure	<p>Call for medical aid. DUST Irritating to eyes, nose and throat. Move victim to fresh air. If in eyes, hold eyelids open and flush with plenty of water.  SOLID Irritating to skin and eyes. Harmful if swallowed. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk and have victim induce vomiting. IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.</p>		
Water Pollution	<p>Effect of low concentrations on aquatic life is unknown. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.</p>		

1. CORRECTIVE RESPONSE ACTIONS	2. CHEMICAL DESIGNATIONS	3. HEALTH HAZARDS
Dilute and disperse Stop discharge	<p>2.1 CG Compatibility Group: Not listed. 2.2 Formula: <chem>Ca(ClO)2</chem> 2.3 IMO/UN Designation: 5.1/1452 2.4 DOT ID No.: 1452 2.5 CAS Registry No.: 10137-74-3 2.6 NAERG Guide No.: 140 2.7 Standard Industrial Trade Classification: 52339</p>	<p>3.1 Personal Protective Equipment: Goggles or face shield; dust respirator; coveralls or other protective clothing. 3.2 Symptoms Following Exposure: Inhalation of dust causes irritation of upper respiratory system. Dust irritates eyes and skin. Ingestion causes abdominal pain, nausea, vomiting, diarrhea, pallor, shortness of breath, unconsciousness. 3.3 Treatment of Exposure: INHALATION: remove to fresh air. EYES: flush with water for 15 min. SKIN: flush with water. INGESTION: induce vomiting and get medical attention. 3.4 TLV-TWA: Not listed. 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Grade 2; oral LD<sub>50</sub> = 4,500 mg/kg (rat) 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: Currently not available. 3.10 Vapor (Gas) Irritant Characteristics: Not pertinent 3.11 Liqui or Solid Characteristics: Currently not available 3.12 Odor Threshold: Odorless 3.13 IDLH Value: Not listed. 3.14 OSHA PEL-TWA: Not listed. 3.15 OSHA PEL-STEL: Not listed. 3.16 OSHA PEL-Ceiling: Not listed. 3.17 EPA AEGL: Not listed</p>

4. FIRE HAZARDS	7. SHIPPING INFORMATION
4.1 Flash Point: Not flammable but may cause fire with other materials.	7.1 Grades of Purity: Commercial. May be shipped as dihydrate.
4.2 Flammable Limits in Air: Not pertinent	7.2 Storage Temperature: Ambient
4.3 Fire Extinguishing Agents: Flood with water.	7.3 Inert Atmosphere: No requirement
4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent	7.4 Venting: Open
4.5 Special Hazards of Combustion Products: Not pertinent	7.5 IMO Pollution Category: Currently not available
4.6 Behavior in Fire: When involved in a fire, may cause an explosion. Irritating gases may be generated when heated.	7.6 Ship Type: Currently not available
4.7 Auto Ignition Temperature: Not pertinent	7.7 Barge Hull Type: Currently not available
4.8 Electrical Hazards: Not pertinent	
4.9 Burning Rate: Not pertinent	
4.10 Adiabatic Flame Temperature: Currently not available	
4.11 Stoichiometric Air to Fuel Ratio: Not Pertinent	
4.12 Flame Temperature: Currently not available	
4.13 Combustion Molar Ratio (Reactant to Product): Not Pertinent	
4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	
5. CHEMICAL REACTIVITY	8. HAZARD CLASSIFICATIONS
5.1 Reactivity with Water: No reaction	8.1 49 CFR Category: Oxidizer
5.2 Reactivity with Common Materials: May form an explosive mixture with finely divided combustible material. The mixture may ignite when rubbed.	8.2 49 CFR Class: 5.1
5.3 Stability During Transport: Stable	8.3 49 CFR Package Group: II
5.4 Neutralizing Agents for Acids and Caustics: Not pertinent	8.4 Marine Pollutant: No
5.5 Polymerization: Not pertinent	8.5 NFPA Hazard Classification: Not listed
5.6 Inhibitor of Polymerization: Not pertinent	8.6 EPA Reportable Quantity: Not listed.
6. WATER POLLUTION	8.7 EPA Pollution Category: Not listed.
6.1 Aquatic Toxicity: Currently not available	8.8 RCRA Waste Number: Not listed
6.2 Waterfowl Toxicity: Currently not available	8.9 EPA FWPCA List: Not listed
6.3 Biological Oxygen Demand (BOD): None	
6.4 Food Chain Concentration Potential: None	
6.5 GESAMP Hazard Profile: Not listed	

## NOTES

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9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
	NOT PERTINENT		NOT PERTINENT		NOT PERTINENT		NOT PERTINENT

9.24 SOLUBILITY IN WATER		9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
34	60.240		NOT		NOT		NOT
36	60.400						
38	60.730						
40	60.980						
42	61.220		PERTINENT		PERTINENT		PERTINENT
44	61.470						
46	61.710						
48	61.960						
50	62.200						
52	62.440						
54	62.690						
56	62.930						
58	63.180						
60	63.420						
62	63.670						
64	63.910						
66	64.160						
68	64.400						
70	64.639						
72	64.889						
74	65.129						
76	65.379						
78	65.620						
80	65.870						
82	66.110						
84	66.360						