



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. CC 105
Effective Date October 30, 1998

SECTION V HEALTH HAZARD DATA CC 105

Threshold Limited Value None established (ACGIH), 1992-93. Odor threshold (Cl): 1.7 mg/m³
RTECS No. NH3485000 LD50 Orl-rat: 850 mg/kg.

Effects of Overexposure Avoid breathing dust. May cause shortness of breath, wheezing, choking, chest pain, impairment of lungs. Irritating to skin, eyes and respiratory tract. May be fatal if swallowed. Causes severe burns to respiratory and gastrointestinal tract. Corrosive to eyes and skin on contact. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures
EYES: Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INGESTION:** If swallowed, do NOT induce vomiting. If conscious, give several glasses of water to drink. Call physician immediately. 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.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Heat, sparks or flame. Any form of contamination. Acids will cause release of chlorine gas. Evolves chlorine gas at ordinary temperature.
	Stable	X		

Incompatibility (Materials to Avoid) Acids, flammables, organics, reducing agents. Example: Oil, kerosene, gasoline, paint products and most other organic material.

Hazardous Decomposition Products Acids or ammonia contamination or excessive heat will release chlorine gas. Chlorine and chlorides.

Hazardous Polymerization		Conditions to Avoid	Not applicable.
May Occur	Will Not Occur		
	X		

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Carefully sweep up and dissolve in water immediately. Neutralize dissolved material by adding Hydrogen peroxide 35% solution. Then dilute neutralized material with plenty of water and flush to sewer. (One pint of 35% Hydrogen peroxide solution per pound of Calcium hypochlorite.)

Waste Disposal Method Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Flush neutralized solution to sewer. Dilution at least 100 gallons of water per pound of Calcium hypochlorite.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) In case of rapid decomposition, use approved gas mask in area where vapors are present. Work in a ventilation hood. NIOSH/MSHA approved respirator.

Ventilation	Local Exhaust	Recommended.	Special	Storage area should be well-ventilated.
	Mechanical (General)	Recommended.	Other	Adequate to maintain below exposure limit.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment Lab coat, ventilation hood, proper gloves, eye wash station, fire extinguisher.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Do not get in eyes, on skin, or on clothing. Store in original container. Avoid any form of contamination. Store in a cool, dry well-ventilated area, away from combustible materials. Add material only to water. Wash thoroughly after handling.
Keep container tightly closed when not in use.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.
May cause fire or explosion when mixed with other chemicals. Fire may result from contact of dry material with cloth or flammables. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 4	Date 10/30/98	Approved Michael Raszeja	Chemical Safety Coordinator MR
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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. * Hazardous Materials Industrial Standards. Printed on recycled paper.

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	CALCIUM HYPOCHLORITE	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS *
Chemical Synonyms	Calcium Hypochlorite, Hydrated mixture *	
Formula	Ca(OCl) ₂	
Unit Size	up to 2.5 Kg.	
C.A.S. No.	7778-54-3	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Calcium Hypochlorite, equivalent to available chlorine 65% minimum	65-70%	None established.

DANGER! STRONG OXIDIZER! HARMFUL IF SWALLOWED

OR INHALED. HARMFUL IF EXPOSED TO SKIN OR EYES.

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes.	Specific Gravity (H₂O = 1)	Not applicable.
Boiling Point (°F)	Decomposes 177°C (350°F)	Percent Volatile by Volume (%)	Not applicable.
Vapor Pressure (mm Hg)	Not applicable.	Evaporation Rate	(=1) Not applicable.
Vapor Density (Air=1)	Not applicable.		
Solubility in Water	Approx. 18% @ 25°C.		
Appearance & Odor	White powder, granules or pellets; strong chlorine-like odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume	NA	Lower	Upper
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Extinguisher Media Use water, preferably in form of spray; carbon dioxide (CO₂); dry chemical (ABC).

SPECIAL FIREFIGHTING PROCEDURES

Do not use dry extinguishers containing ammonium compounds. Use only water in the event of contamination resulting in fire or rapid decomposition. Wear a NIOSH/MSHA-approved, self-contained breathing apparatus and full protective clothing; wear goggles if eye protection is not provided.

*Contains:
Sodium Chloride: (CAS No. 7647-14-5)...10-20%
Calcium Chlorate: (CAS No. 10137-74-3)...0-5%
Calcium Chloride: (CAS No. 10043-52-4)...0-5%
Calcium Hydroxide: (CAS No. 1305-62-0)...0-4%
Calcium Carbonate: (CAS No. 471-34-1)...0-4%

UNUSUAL FIRE AND EXPLOSION HAZARDS

Prevent any form of contamination since a violent reaction may result. Spontaneous decomposition @ 350°F liberating chlorine gas. Powerful oxidizing material. With acids evolves chlorine at ordinary temperatures. Not combustible but evolves oxygen at higher temperature. Readily ignites combustible or organic materials when in contact. May undergo accelerated decomposition with evolution of heat.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 140)

D.O.T. CALCIUM HYPOCHLORITE, HYDRATED MIXTURES, 5.1, UN 2880, PG II

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20