


1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product identifier: CALCIUM HYPOCHLORITE
Synonyms: Cal Hypo, Hypochlorous Acid, Calcium Salt; Calcium Hypochloride; Chlorinated lime
Intended use: Chlorine Disinfectant. Pool chemicals
Uses Advised Against: None identified. This is a pesticide product, do not use in a pesticide application that is not included on the label.

Company Identification: DPC Industries, Inc.
DPC Enterprises, LP
DXI Industries, Inc.
DX Terminals
PO Box 24600
Houston , TX 77229-4600

Emergency :
CHEMTREC (USA) (800) 424-9300
24 hour Emergency Telephone No. (281) 457-4888
www.dxgroup.com

2. Hazard identification of the product

Physical hazards		
Health hazards	May intensify fire; oxidizer. Harmful if swallowed Causes skin irritation Causes serious eye damage	Category 2 Category 4 Category 2 Category 1
Environmental hazards	Very toxic to aquatic life	Category 1
Label elements Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.		
		
Signal Word	Danger	
Hazard Statements	May intensify fire; oxidizer. Harmful if swallowed. Causes severe skin burns and serious eye damage. May cause respiratory irritation. Very toxic to aquatic life.	
Precautionary Statements		
Prevention	Keep away from heat / sparks / open flames / hot surfaces - No smoking. Keep / Store away from clothing/ combustible materials. Take any precaution to avoid mixing with combustibles. Do not breathe dust/ mist / vapors / spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment.	
Response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower. Wash contaminated clothing before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor / physician if you feel unwell. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Immediately call a POISON CENTER or doctor / physician.	
Storage	Store in a well ventilated place. Keep container tightly closed. Store locked up.	
Disposal	Dispose of contents / container in accordance with local / national regulations.	

3. Composition/information on ingredients

Substance classified with a health or environmental hazard.
Synonyms: Cal Hypo, Hypochlorous Acid, Calcium Salt; Calcium Hypochloride; Chlorinated lime

Ingredient	CAS Number	Percent (%)
Calcium Hypochlorite	7778-54-3	50-75

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4. First Aid Measures

General	Move victim to fresh air. Call 911 or emergency medical service. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Remove and isolate contaminated clothing and shoes. Contaminated clothing may be a fire risk when dry. In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Keep victim warm and quiet. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Seek medical attention.
Skin	Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Contaminated clothing should be laundered before reuse. Seek medical attention if irritation persists.
Ingestion	If accidentally swallowed, rinse mouth. Do not induce vomiting. Keep at rest. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed

Overview	Causes redness and irritation. In case of severe exposure, coughing may develop.
Indication of immediate medical attention and special treatment needed	The ingestion of significant quantities may cause nausea/vomiting. In cases of severe exposure, breathing difficulty may develop. Prolonged skin or eye contact may cause chemical burns. May cause respiratory irritation. Harmful if swallowed.

5. Fire-fighting measures

Recommended Extinguishing media	Use alcohol resistant foam, or water spray for extinction. Do not use water jet.
Unsuitable extinguishing media	Do not use carbon dioxide or dry agent.
Special hazards arising from the substance or mixture	Excessive heat will cause decomposition resulting in chlorine gas release, acid or ammonia contamination will release toxic gases. Keep away from heat / sparks / open flames / hot surfaces . Keep / Store away from clothing combustible materials. Take any precaution to avoid mixing with combustibles. Do not breathe mist / vapors / spray.
Advice for fire-fighters	Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters' protective clothing will only provide limited protection. These substances will accelerate burning when involved in a fire. Some may decompose explosively when heated or involved in a fire. May explode from heat or contamination. Some will react explosively with hydrocarbons (fuels). May ignite combustibles (wood, paper, oil, clothing, etc.). Containers may explode when heated. Inhalation, ingestion or contact (skin, eyes) with vapors or substance may cause severe injury, burns or death. Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may cause pollution. ERG Guide No. 140

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6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Large Spill: Collect as much as possible in clean container for reuse or disposal. Do not absorb spillage in sawdust or other combustible material. Following product recovery, flush area with water. Do not mix with any other chemicals. Spilled material that has been dissolved in water should be used immediately in the normal application for the material. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.
Environmental precautions	Do not allow spills to enter drains or watercourses.
Methods and material for containment and cleaning up	CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed in Section 1. As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

7. Handling and storage

Precautions for safe handling	Use only a clean, dry scoop made of metal or plastic each time product is taken from container. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause violent reaction leading to fire or explosion. Add this product only to water. May cause fire or explosion if mixed with other chemicals. Fire may result if contaminated with acids or easily combustible materials such as oil, kerosene, gasoline, paint products and most other organic materials. Do not reuse container. Do not contaminate food, water, or feed by storage or disposal.
Conditions for safe storage, including any incompatibilities	Handle containers carefully to prevent damage and spillage. Use in well ventilated place away from acids and combustible materials. Avoid excessive heat. Do not mix with other products.

8. Exposure controls and personal protection

Exposure Control parameters

CAS No.	Ingestion	Source	Value
7778-54-3	Calcium Hypochlorite	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

Individual protection measures, such as personal protective equipment

Respiratory	Use NIOSH/MSHA approved respirator, following manufacturer's recommendations where dust or mist will be generated.
Eyes	Wear safety glasses with side shields or safety goggles to protect the eyes. An eye wash station is suggested as a good workplace practice.
Skin	Chemical impervious gloves. Chemical resistant clothing such as coveralls/apron boots should be worn. Emergency eyewash station should be in close proximity.
Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

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9. Physical and chemical properties

Appearance:	White granules, powder, tablets
Odor:	Slight Chlorine Odor
Odor threshold:	Not Measured
pH:	9-11
Melting point / freezing point:	Not Measured
Initial boiling point and boiling range:	Decompose @ 180 °F
Flash Point:	Not Applicable
Evaporation rate (Ether = 1):	Not Applicable
Flammability (solid, gas):	Not Applicable
Upper/lower flammability or explosive limits:	Lower Explosive Limit: Not Applicable Upper Explosive Limit: Not Applicable
Vapor pressure (mmHg):	Not Available
Vapor Density:	Not Available
Specific Gravity:	Not Measured
Solubility in Water:	217 g/l
Partition coefficient n-octanol/water (Log Kow):	Not Measured
Auto-ignition temperature (°C):	Not Measured
Decomposition temperature:	180 °F
Viscosity (cSt):	Not Measured
VOC %:	Not Measured

10. Stability and reactivity

Reactivity	Hazardous polymerization will not occur.
Chemical stability	Stable under normal circumstances.
Possibility of hazardous reactions	Contact with acids liberates toxic gas.
Conditions to avoid	No data available
Incompatible materials	Excessive heat, combustible materials, organics, reducing agents.
Hazardous decomposition products	Excessive heat will cause decomposition resulting in chlorine gas release. Acid or ammonia contamination will release toxic gases.

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Calcium hypochlorite (7778-54-3)	850.00, Rat - Category: 4	2,000.00, Rabbit - Category: 4	1,300.00, Rat - Category: NA	No data available	No data available

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11. Toxicological information Acute toxicity (Cont.)

Item	Hazard
Acute Toxicity (mouth)	Harmful if swallowed
Acute Toxicity (skin)	Harmful in contact with skin.
Acute Toxicity (inhalation)	Not Applicable.
Skin corrosion/irritation	Causes severe skin burns and eye damage.
Eye damage/ irritation	Causes serious eye damage.
Sensitization (respiratory)	Not Applicable
Sensitization (skin)	Not Applicable
Germ toxicity	Not Applicable
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive Toxicity	Not Applicable
Specific target organ systemic toxicity (single exposure)	May cause respiratory irritation.
Specific target organ systemic Toxicity (repeated exposure)	Not Applicable
Aspiration hazard	Not Applicable

12. Ecological information

Toxicity - Very toxic to aquatic life with long lasting effects.

Aquatic Ecotoxicity

Ingredient	96 hr. LC50 fish, mg/l	48 hr. EC50 crustacea, mg/l	ErC50 algae, mg/l
Calcium hypochlorite (7778-54-3)	0.088, Bluegill	0.079, Daphnia magna	Not Available

Persistence and degradability:	There is no data available on the preparation itself.
Bioaccumulative potential:	Not Measured
Mobility in soil:	No data available.
Results of PBT and vPvB assessment:	This product contains no PBT/vPvB chemicals.
Other adverse effects:	No data available.

13. Disposal considerations

Waste treatment methods:	Do not allow into drains or water courses. Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. Using information provided in this data sheet, advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply.
Waste from material:	The waste determination should be made in discussion between the user and the waste disposal company.
Container Management:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

UN number:	UN2880
UN proper shipping name:	Calcium hypochlorite, Hydrated
Transport hazard class(es)	
DOT (Domestic Surface Transportation)	
DOT Proper Shipping Name:	Calcium hypochlorite, Hydrated
DOT Hazard Class	5.1
DOT Label:	5.1
UN / NA Number:	UN2880
DOT Packing Group:	II
CERCLA/DOT RQ:	1.71 gal. / 10 lbs.
Environmental hazards:	IMDG Marine Pollutant: Yes
Special precautions for user:	Not Applicable

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15. Regulatory information

Regulatory Overview:		The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory.					
WHMIS Classification:		D2B E C					
OSHA REGULATORY STATUS:		This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)					
US EPA Tier II Hazards:		Fire:	Yes	Immediate (Acute):	Yes		
		Sudden Release of Pressure:	No	Delayed (Chronic):	No		
		Reactive:	Yes				
SARA 302 Extremely Hazardous Substance / RQs (lbs) :			No / 10-lbs				
SARA 311/312 Chemicals and RQs (lbs) (>0.1%) :			No				
SARA 313 (TRI)			No				
OSHA PSM (29 cfr 1910.119):			No				
TSCA:			Calcium hypochlorite				
State Regulations:	N.J. RTK Substances (>1%)	Listed	Penn RTK Substances (>1%)	Listed	California Prop 65	Not listed	

16. Other information

Revision Information: This is the first revision of this SDS format, changes from previous revision not applicable.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

THE USER IS CAUTIONED TO PERFORM HIS OWN HAZARD EVALUATION AND TO RELY ON HIS OWN DETERMINATIONS.