



SAFETY DATA SHEET

Section 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY UNDERTAKING.

TRADE NAME (AS LABELED): CALCIUM HYPOCHLORITE (60%, 65%)
CHLORO SHOCK
CLORMOR (65, GIANT TABS)
FREESTYLE CALCIUM HYPOCHLORITE
FREESTYLE SUPERSHOCK CHLOR
HTH DRY CHLORINE (GRANULAR, TABLETS)
INDUCLOR CALCIUM HYPOCHLORITE; NORWECO BIO-SANITIZER TABLET
PITTABS CALC HYPOCHLORITE
PITTCLOR CALCIUM HYPOCHLORITE
PPG (3 IN CALCIUM HYPOCHLORITE, ACCU-SHOCK, ACCU-TAB BLUE SI TABLET,
ACCU-TAB BLUE TABLETS, ACCU-TAB SI TABLETS, ACCU-TAB WHITE TABLETS,
BLUE CALCIUM HYPOCHLORITE, CALCIUM HYPOCHLORITE 70, PPG INDUTABS
CAL HYPYO TABLETS, N-101 CALCIUM HYPOCHLORITE, ONLY 1 CALC HYPO,
SUSTAIN CALC HYPOCHLORITE)

EPA REGISTRATION NUMBER: 1258-1069-148 (Calcium Hypochlorite 65)
EPA REGISTRATION NUMBER: 748-217-148 (Calcium Hypochlorite Granular 65)

CHEMICAL FAMILY: Bleaching agents (Oxidizers)
CHEMICAL NAME: Calcium Hypochlorite
FORMULA: Ca (OCL)₂
CAS NUMBER: 7778-54-3
MSDS SHEET NUMBER: **000382 / Version 06**

SUPPLIERS NAME: **Harcros Chemicals, Inc.**
ADDRESS: 5200 Speaker Road
Kansas City, KS 66106-1095

BUSINESS PHONE: (913) 321-3131
EMERGENCY PHONE: (800) 424-9300 (**CHEMTREC**)
VALIDATION DATE: **05-OCT-2010**

INTERNATIONAL INVENTORIES:

Canada (DSL): Listed
China (CIS): Listed
Australia (AICS): Listed
Europe (EINECS): Listed
Japan (MITI): Listed
Korea (ECL): Listed
Philippines (PICCS): Listed

Section 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Appearance: Solid-Powder, Crystal, Flake, Granule, Tablet, Prill, Briquette, Etx.

Odor: Sharp

Signal Word: Danger! CORROSIVE SOLID. CAUSES BURNS. DESTROYS BODY TISSUES.

Precautions:

Wear protective equipment when handling. Use only with adequate ventilation. Wash thoroughly after handling. Do not get in eyes or skin. Do not breathe vapor, mist, or dust. Avoid prolonged or repeated contact with skin. Do not swallow.

Section 2. HAZARDS IDENTIFICATION Continued.

Potential acute and chronic health effects:

HAZARD STATEMENTS: Potential Health Effects (ACUTE AND CHRONIC):

OVEREXPOSURE MAY CAUSE DAMAGE TO,
DISORDERS OF, OR ADVERSELY AFFECT THE FOLLOWING SYSTEMS, FUNCTIONS, ORGANS:
Eyes, Respiratory System, Gastrointestinal tract, Kidneys, Liver

Routes of Entry: Eye contact, Skin contact, Inhalation, indigestion.

CARCINOGENICITY: No components, present in excess of 0.1% by weight are listed as carcinogens by IARC, NTP, or OSHA.

Eyes Eye contact with product may cause severe irritation, burns, or blindness.
Inhalation Inhalation may cause irritation, coughing, pain, decreased breathing capacity, excess fluid retention (pulmonary edema).
Ingestion Ingestion may cause burns, tissue destruction, even death.
Skin Skin contact may cause Irritation, burns, tissue destruction.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS NUMBER	MAX Percentage%	EXPOSURE LIMITS			AGENT
			TWA/TLV ppm	STEL ppm	CEIL ppm	
Calcium Hypochlorite	7778-54-3	75.00	Industry Recommendation			
Calcium Oxchloride				2mg/m3		

Section 4. FIRST AID MEASURES

EYE CONTACT:

Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids apart to ensure flushing of entire surface. Call a physician.

SKIN CONTACT:

Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. Call a physician.

INHALATION:

Remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. If breathing is difficult give oxygen. Call a physician.

INGESTION:

If swallowed, DO NOT induce vomiting unless so instructed by physician or poison control center. Rinse mouth with water. Dilute stomach contents by drinking. If vomiting occurs spontaneously, keep head below hips to prevent breathing of vomit into lungs. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Section 5. FIRE-FIGHTING MEASURES

Flash Point (METHOD):	N/A
Auto-Ignition	Not Available
Flammable Limits	Not Available
Extinguishing Media	Water
Special Fire Fighting Procedures	Prevent human exposure to fire, fumes, smoke, and products of Combustion. Evacuate non-essential personnel. Firefighters should Wear full face, self-contained apparatus and impervious protective clothing.

Unusual fire and Explosion Hazards: Product does not burn, but can provide oxygen, which can intensify a fire. Intense heat may cause pressure buildup and rupture container. Product is an oxidizer. It may react vigorously with organics or other material resulting in an explosion and fire.

Section 6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Personal precautions

Evacuate non-essential personnel, eliminate ignition sources, and wear protective equipment (See Section VIII). Shut off source of leak only if safe to do so. Wear respiratory equipment if exposure limits are exceeded.

Contain spill

Contain spill. Recover free product. Neutralize. To clean up residue, flush sparingly with water or use an absorbent. Avoid runoff to ground water, surface waters, and sewers. It may be necessary to remove contaminated soil. If required, notify state and local authorities.

Disposal Method

Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable regulations under the Resource Conservation and Recovery Act. Dispose of material in accordance with all Federal, State and local regulations. Local regulations may be more stringent than Federal or State.

Section 7. HANDLING AND STORAGE

HANDLING

For Industrial use only.

Wear protective equipment. Keep heat, lights, fire, and sparks away. ATTENTION: This container hazardous when emptied. Since emptied container contains product residues (vapor or liquid), all labeled hazard precautions must be observed.

STORAGE: Keep container closed when not in use. Store in a cool, dry place. Store away from oxidizers. Keep out of reach of children.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Mechanical: General ventilation is usually adequate.

Mechanical ventilation may be required to maintain exposure levels below limits.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION Continued.

RESPIRATORY PROTECTION: If exposure limits are exceeded, or if exposure may occur, use a NIOSH/MSHA respirator approved for your conditions of exposure. Refer to the most recent NIOSH publications concerning chemical hazards, or consult your safety equipment supplier. Respiratory protection programs must be in compliance with OSHA requirements in 29 CFR 1910.134. For emergencies, a NIOSH/MSHA approved positive pressure-breathing apparatus should be readily available.

EYE PROTECTION: Chemical goggles, Safety glasses with non-perforated side shield. Always wear eye protection when working with chemicals. Do Not wear contact lenses when working with chemicals.

SKIN PROTECTION: Impervious gloves, clean body covering, rubber boots, rubber apron.

OTHER PROTECTIVE EQUIPMENT:

Safety shower, eye wash fountain, and washing facilities should be readily available.

WORK HYGIENIC PRACTICES: Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take First Aid action shown in Section IV. Launder contaminated clothing before reuse.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid- Powder, Crystal, Flake, Granule, Tablet, Prill, Briquette, Etc.
Odor:	Sharp
pH: aqueous approx.:	> or = to 10.400 to 10.800
Boiling point/boiling range:	333 – 356 deg. F.
Freezing Point:	N/D
Flash Point:	N/A
Vapor Pressure: (MM HG.):	N/D
Vapor Density (Air =1):	N/D
Solubility In Water:	~18%
Specific Gravity:(H ₂ O=1):	0.8000 to 1.000@ 68 deg. F
Evaporation Rate: (Water =1):	N/D
Percent Volatile by Volume:	N/D

Section 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

MATERIALS TO AVOID: Inorganic acids, organic mixtures. Avoid contact with strong reducing agents, which include hydrogen, hydrazine, sulfides, sulfites, and nitrites. Product is an oxidizer. It may react vigorously with organics or other materials resulting in an explosion and fire.

CONDITIONS TO AVOID: Heat, heated surfaces, static electricity, electric arcs, sparks and flames.

HAZARDOUS DECOMPOSITION PRODUCTS:

Acid or Ammonia combination will release toxic gases. Excessive heat results in release of Oxygen and Chlorine gas.

HAZARDOUS POLYMERIZATION: Will not occur

Section 11. TOXICOLOGICAL INFORMATION

ANIMAL TEST DATA

Calcium Hypochlorite (65%), Oral, LD50, Rat 850 mg/kg
Dermal, LD50, Rabbit >2000mg/kg
Inhalation, LC50, Rat 1 hr (Nose only) = 2.04 Mg/L
Inhalation, LC50, Rat 4 hr (Nose Only) = 0.51 Mg/L

Section 12. ECOLOGICAL INFORMATION

Highly toxic to fish and other aquatic organisms.

Calcium Hypochlorite Bluegill – (nominal, static) 96 h LC50 0.88 mg/L
Rainbow Trout - (nominal, static) 96 h LC50 0.16 mg/L
Daphnia magna - (nominal, static) 48 h LC50 0.11 mg/L
Bobwhite quail - Dietary LC50 > 5,000 ppm
Mallard ducklings - Dietary LC50 > 5,000 ppm
Bobwhite Quail -Oral LD50 3,474 mg/kg

Section 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Follow applicable local, state, and federal regulations.

Section 14. TRANSPORT INFORMATION

DOT (Department of Transportation)
Proper Shipping Name: Calcium Hypochlorite Hydrated
Hazard Class: 5.1
UN/NA Number: UN2880
Packaging Group: II
Label Requirements: Oxidizer
Reportable Quantity (RQ): None

Section 15. REGULATORY INFORMATION

UNITED STATES

HCS CLASSIFICATION:

HMIS

HEALTH: 3 FLAMMABILITY 0 PHYSICAL HAZARDS 1 PPE X

NFPA

HEALTH: 3 FLAMMABILITY 0 REACTIVITY 1 OTHER

S.A.R.A. Information

HAZARDS: Acute, Chronic

PHYSICAL DATA: Solid

EPCRA APPLIES:

312: Y

313: N

Section 15. REGULATORY INFORMATION Continued.

TSCA INVENTORY STATUS: Listed

TSCA, 40 CFR 710: Sources of the raw materials used in this mixture assure that all chemical ingredients present are in compliance with Section 8(b) Chemical Substance Inventory, or are otherwise in compliance with TSCA.

WHMIS Classification: C Oxidizing material causes or contributes to the combustion of another material
Yielding oxygen.
E Corrosive Material necrosis of skin.



REACH Classification: O; R8 - C; R34 - Xn; R22 - R31 - N; R50

R8: Contact with combustible material may cause fire.

R22: Harmful if swallowed.

R31: Contact with acids liberates toxic gas.

R34: Causes Burns.

R50: Very toxic to aquatic organisms.

S1/2: Keep locked up and out of the reach of children.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (Show label).

S61: Avoid release to the environment. Refer to special instructions/ Safety Data Sheet.



GHS

CLASSIFICATION

FLAMMABLE LIQUIDS	Category: None
SERIOUS EYE DAMAGE	Category: 1
SKIN CORROSION/IRRITATION:	Category 1
ASPIRATION HAZARD	Category: 2
SPECIFIC TARGET TOXICITY:	Category: 2
SIGNAL WORD	DANGER!



Section 16. OTHER INFORMATION

The information provided in this Material Safety data sheet has been obtained from sources believed to be reliable. Harcros Chemicals Inc provides no warranties, either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your information, consideration, and investigation. You should satisfy yourself that you have all current data relevant to your particular use. Harcros Chemicals Inc knows of no medical condition, other than those noted on this material safety data sheet, which are generally recognized as being aggravated by exposure to this product.

END MSDS

