



SENTRY INDUSTRIES INC.



MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Calcium Hardness
 Chemical Name: Calcium Chloride
 Manufacture: Dow Chemical Company, Midland, Mi. 48674
 Telephone: (800) 258-2436
 Distributor: Sentry Industries 5687 NW 36th Ave. Miami Fl. 33142
 Telephone: (305) 638-0800 (954) 527-4000 (800) 227-2047

SECTION 2 COMPOSITION / INGREDIENTS

<u>Ingredient (s):</u>	<u>Percent by Weight</u>	<u>CAS #</u>
Calcium Chloride (CaCl ₂)	77-80 %	10043-52-4
Sodium Chloride	1-2 %	07647-14-5
Potassium Chloride	2-3 %	07447-40-7
Water	15-20 %	07732-18-5

SECTION 3 HAZARDS IDENTIFICATION

Causes eye irritation. May cause skin irritation. May be harmful if swallowed.

Health Effects of Overexposure:

- Eye Contact:** Flakes may cause slight eye irritation. Dusts may cause severe irritation with corneal injury. Effects may be slow to heal. When dissolving, the heat produced may cause more intense effects as well as thermal burns.
- Skin Contact:** Brief contact is essentially nonirritating to skin. Prolonged or repeated exposure may cause skin irritation, even a burn. Prolonged skin contact is unlikely to result in absorption of harmful amounts. Not classified as a corrosive to the skin according to DOT guidelines. May cause more severe response if continued to skin or skin is abraded (scratched or cut). When dissolving, the heat produced may cause more intense effects as well as thermal burns.
- Inhalation:** Dust may cause irritation to upper respiratory tract (nose and throat). Vapors are unlikely due to physical properties.
- Ingestion:** Low toxicity if swallowed. Swallowing may result in irritation to the mouth, throat and gastrointestinal tract. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing large may cause injury.

SECTION 4 FIRST AID

Emergency First Aid Procedures:

- Eye Contact:** Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.
- Skin Contact:** Wash skin with plenty of water.
- Inhalation:** Move person to fresh air; if effects occur, consult a physician.
- Ingestion:** If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by

medical personnel.

Note to Physician:

If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5 FIRE FIGHTING MEASURES

Flash Point: NA Flammable Limits: Noncombustible
National Fire Rating System (NFPA): NA Hazard Material Identification System (HMIS): NA

Extinguishing Media: This material does not burn. If exposed to fire from another source, use suitable extinguishing agent for that fire.

Special Fire Fighting Procedures: Evacuate area of fire.

Unusual Fire & Explosion Hazards: Non-combustible.

Additional Information: Wear positive pressure, self-contained breathing apparatus and full protective equipment. Evacuate area of unprotected personnel. Isolate the hazard area and deny unnecessary entry.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is Released or Spilled: Sweep or shovel up and place into a suitable and properly labeled container. Wash area with large amounts of water. Flush to sewer with plenty of water, if permitted by applicable disposal regulations.

SECTION 7 HANDLING & STORAGE

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Store in closed containers. Store in a cool, dry area. Keep containers closed. Protect from physical damage. Utilize local exhaust if dusty or misty conditions exist.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Respirator Protection: If dusty conditions prevail, use dust respirators approved by NIOSH.

Ventilation: Local exhaust ventilation - personnel should not be exposed to irritating effects of the dust.

Eye Protection: If exposed to dust, wear chemical goggles. Do not wear contact lenses. Eyes must be protected if dissolving material in water. Eye wash stations should be located in immediate area.

Other Protective Equipment: Wear full work clothing, including long sleeved shirt and trousers for routine product-handling use. Cotton gloves are usually adequate for dry product. For solutions, wear impervious gloves and apron. If contact is repeated or prolonged, wear full impervious clothing.

SECTION 9 PHYSICAL & CHEMICAL PROPERTIES

Physical State:	Solid flakes.	Appearance:	White to off-white solid flakes.
Odor:	Odorless	Specific Gravity:	1.85
Boiling Point:	347 ⁰ F (174 ⁰ C)	Freezing Point:	Approx. 347 ⁰ F (174 ⁰ C)
pH:	7-8		
Vapor Pressure (mm Hg):	1.0 mmHg @ 20 ⁰ C/68 ⁰ F	Vapor Density:	NA
Solubility in Water	Very Soluble		

SECTION 10 STABILITY & REACTIVITY

Stability: Stable. Hygroscopic.

Incompatibility (Materials to Avoid): Corrosive to some metals. Avoid contact with metal such as: brass, mild steel, aluminum, or ferrous metals. Flammable hydrogen may be generated from contact with metals such as zinc or sodium. Avoid contact with sulfuric acid. Heat is generated when mixed with water. Spattering or boiling can occur.

Hazardous Decomposition Products: NA
 Hazardous Polymerization: Will not occur.
 Conditions to Avoid: None known.

SECTION 11 TOXICOLOGICAL INFORMATION

Threshold Limit Value: OSHA PEL & ACGIH TLV
 Toxic Limits: Skin: LD50 >5000 mg/kg (rabbits)
 Ingestion: LD50 900-2100 mg/kg (rats)
 Mutagenicity: Negative

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: Material is practically non-toxic to aquatic organisms on an acute basis (LC50 or EC50 > 100 mg/L in the most sensitive species tested).
 Environmental Fate: Partitioning from water to n-octano is not applicable. Biodegradation is not applicable

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose in accordance with Federal, State, and local regulations. Chemical additions or otherwise altering the material may make the MSDS incomplete or inappropriate. Waste characterization and disposal compliance is the responsibility of the party generating and disposing of the waste. If unused & uncontaminated, preferred disposal include sending to a licensed, permitted reclaimer, landfill or waste water treatment plant.
 Additional Information: This material is categorized by EPA as an "immediate health hazard". Plan in advance for such an incident and have the necessary equipment available.

SECTION 14 TRANSPORTATION INFORMATION

DOT Proper Shipping Name: Not a regulated product.
 DOT Hazard Class: NA
 DOT Identification #: NA

SECTION 15 REGULATORY INFORMATION

SARA 313 (supplier notification) – NA
 SARA 311 & 312 – considered “immediate health hazard” due to possibility of eye or skin irritation.
 CERCLA - NA
 RQ: NA

SECTION 16 OTHER INFORMATION

4/12/08 – Revision to formatting.
 5/24/04 – Previous version.

The data in this Material Data Sheet relates only to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control, it should not be taken as a warranty or representation for which Sentry Industries assume legal responsibility. This information is provided solely for your consideration, investigation, and verification.

For additional information, contact our technical service department.