Safety Data Sheet
Dechlor – C ™

SDS Number: 2908 **Revision:** May 22, 2015

Section 1: IDENTIFICATION

1.1 Product Name: Dechlor – C ™

1.2 Chemical Name: Calcium Thiosulfate Solution

1.3 Other Identification:

Chemical Family: Inorganic salt solution

Formula: CaS_2O_3

1.4 Recommended Use of Chemical: Water treatment

1.5 Manufacturer: Water Guard Inc.
P.O. Box 2226
Wilson, N.C. 27894

Information: (800) 872-7665

1.6 Emergency Contact: PERS (800) 633-8253

Section 2: HAZARD(S) IDENTIFICATION

2.1 Hazard Classification: Health None
Physical None

2.2 Signal Word: Not Applicable

2.2.1 Hazard Statement(s): Not Applicable

2.2.2 Symbol(s): Not Applicable

2.2.3 Precautionary Statement(s): Avoid contact with eyes.
Use/store in cool, well ventilated areas.
Avoid prolonged/repeated breathing of vapors. Avoid prolonged/repeated contact with the skin. Keep away from any sources of heat or flames. Store totes or small containers out of direct sunlight.
Wear protective apron, gloves and eye and face protection.
Do not allow release to aquatic waterways.

2.3 Unclassified Hazard(s): None

2.4 Unknown Toxicity Ingredient: None

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical Ingredients: (See Section 8 for exposure guidelines)

Chemical	Synonym Common Name	CAS No.	EINECS No.	% by Wt.
Thiosulfuric acid ($H_2S_2O_3$), calcium salt	Calcium thiosulfate	10124-41-1	233-333-7	20 - 30
Water	Water	7732-18-5	231-791-2	70 - 80

Section 4: FIRST AID MEASURES

4.1 Symptoms/Effects:

Acute: Eye contact may cause eye irritation. Repeated or prolonged skin contact may cause skin irritation. Ingestion may irritate the gastrointestinal tract.

Chronic: No known chronic effects.

4.2 Eyes: Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to insure thorough flushing of the entire area of the eye and lids. Obtain medical attention if irritation occurs.

4.3 Skin: Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Obtain medical attention if irritation occurs.

4.4 Ingestion: If victim is conscious, give 2 to 4 glasses of water and induce vomiting by touching finger to back of throat. Obtain medical attention.

4.5 Inhalation: Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start CPR.

Section 5: FIRE FIGHTING MEASURES

5.1 Flammable Properties: (See Section 9, for additional flammable properties)

Heating this product to dryness will cause the release of oxides of sulfur.

NFPA: Health - 0 Flammability - 0 Reactivity - 0

5.2 Extinguishing Media:

5.2.1 Suitable Extinguishing Media: Not flammable, use media suitable for combustibles involved in fire.

5.2.2 Unsuitable Extinguishing Media: None known

5.3 Protection of Firefighters:

5.3.1 Specific Hazards Arising from the Chemical:

Physical Hazards: Heating (flames) of closed or sealed containers may cause violent rupture of containers due to thermal expansion of compressed gases.

Chemical Hazards: Heating causes release of oxides of sulfur. Sulfur dioxide is highly irritating to the eyes, respiratory tract and moist skin.

5.3.2 Protective Equipment and Precautions for Firefighters:

Firefighters should wear self-contained breathing apparatus (SCBA) and full fire-fighting turnout gear. Keep containers/storage vessels in fire area cooled with water spray.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions: Use personal protective equipment specified in Section 8. Isolate the hazard area and deny entry to unnecessary, untrained and unprotected personnel.

6.2 Environmental Precautions:

Large quantities should be kept out of "waters of the United States" because of potential aquatic toxicity (See Section 12).

6.3 Methods of Containment:

Small Release: Confine and absorb small releases with sand, earth or other inert absorbent.

Large Release: Shut off release if safe to do so. Dike spill area with earth, sand or other inert absorbents to prevent runoff into surface waterways (potential aquatic toxicity).

6.4 Methods for Cleanup:

Small Release: For small areas shovel up the absorbed material and place in drums for disposal as a chemical waste.

Large Release: Recover as much of the spilled product as possible using portable pump and hoses. Treat remaining material as a small release (above).

Section 7: HANDLING and STORAGE

7.1 Handling: Avoid contact with eyes. Use only in a well ventilated area. Wash thoroughly after handling product. Avoid prolonged or repeated contact with the skin.

7.2 Storage: Store in well ventilated areas. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame. Store totes and smaller containers out of direct sunlight at moderate temperatures. (See Section 10.5 for materials of construction).

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure Guidelines:

Chemical	OSHA PELs		ACGIH TLVs	
	TWA	STEL	TWA	STEL
Not Applicable				

8.2 Engineering Controls: None

8.3 Personal Protective Equipment (PPE):

8.3.1 Eye/Face Protection: Chemical goggles and a full face shield.

8.3.2 Skin Protection: Neoprene rubber gloves and apron should be worn to prevent repeated or prolonged contact with the liquid. Wash contaminated clothing prior to reuse.

8.3.3 Respiratory Protection: None required. If conditions exist where mist may be created, a NIOSH/MSHA approved mist respirator should be worn.

8.3.4 Hygiene Considerations: There are no known hazards associated with this product when used as recommended, however common good industrial hygiene practices should be followed, such as washing thoroughly after handling and before eating or drinking.

Section 9: PHYSICAL and CHEMICAL PROPERTIES

9.1 Appearance:	Colorless liquid
9.2 Odor:	Fresh concrete to no odor at all
9.3 Odor Threshold:	Not determined
9.4 pH:	6.5 – 8.0
9.5 Melting Point/Freezing Point:	Salt out temperature is 32°F (*Typical*)
9.6 Boiling Point:	100°C (212°F) with decomposition
9.7 Flash Point:	Not applicable
9.8 Evaporation Rate:	Not applicable
9.9 Flammability:	Not applicable
9.10 Upper/Lower Flammability Limits:	Not applicable
9.11 Vapor Pressure:	37mm Hg @ 100°F
9.12 Vapor Density:	Same as water
9.13 Relative Density:	1.25 – 1.26 (10.4 – 10.5 Lbs/gal) (*Typical*)
9.14 Solubility:	Complete
9.15 Partition Coefficient:	Data not available
9.16 Auto-Ignition Temperature:	Not applicable
9.17 Decomposition Temperature:	Data not available
9.18 Viscosity:	2.11 cSt @ 25°C

Section 10: STABILITY and REACTIVITY

10.1 Reactivity: Avoid interaction with heat, flames, oxidizers or acids.

10.2 Chemical Reactivity: This is a stable product under normal temperatures, 60 – 120°F (15 – 49°C).

10.3 Possibility of Hazardous Reactions:

See Section 10.5, below.

10.4 Conditions to Avoid: Heating above 120°F (49°C)

10.5 Incompatible Materials: Strong oxidizers such as nitrates, nitrites or chlorates can cause explosive mixtures if heated to dryness. Acids will cause the release of sulfur dioxide,

a severe respiratory hazard. The following materials of construction are not compatible with calcium thiosulfate solutions; carbon steel, copper or its alloys (brass, bronze) or galvanized steel.

10.6 Hazardous Decomposition Products:

Calcium oxide and oxides of sulfur. Sulfur dioxide is a severe respiratory irritant.

Section 11: TOXICOLOGICAL INFORMATION

11.1 Oral: Oral Rat (female) LD_{50}: > 2,000 mg/Kg (OECD 425)

Interperitoneal Rat LD_{LO}: 573.mg/Kg

Intravenous Rat LD_{LO}: 344 mg/Kg

Intraperitoneal Mouse LD_{50}: 115 mg/Kg

11.2 Dermal: Data not available
11.3 Inhalation: Data not available
11.4 Eye: Data not available
11.5 Chronic/Carcinogenicity: Not listed in NTP, IARC or by OSHA
11.6 Teratology: Data not available
11.7 Reproduction: Data not available
11.8 Mutagenicity: Data not available

Section 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity: Data not available.
12.2 Persistence & Degradability: Data not available.
12.3 Bioaccumulative Potential: Data not available.
12.4 Mobility in Soil: Data not available.
12.5 Other Adverse Effects: Data not available.

Section 13: DISPOSAL CONSIDERATIONS

Consult federal, state and local regulations for disposal regulations.

Section 14: TRANSPORT INFORMATION

14.1 Basic Shipping Description:
- **14.1.1 Proper Shipping Name:** Calcium thiosulfate solution (Not regulated by DOT)
- **14.1.2 Hazard Classes:** Not applicable
- **14.1.3 Identification Number:** Not applicable
- **14.1.4 Packing Group:** Not applicable
- **14.1.5 Hazardous Substance:** No
- **14.1.6 Marine Pollutant:** No

14.2 Additional Information:
- **14.2.1 Other DOT Requirements:**
  - **14.2.1.1 Reportable Quantity:** Not applicable
  - **14.2.1.2 Placard(s):** Not applicable
  - **14.2.1.3 Label(s):** Not applicable

14.2.2 USCG Classification: Class 43, Misc. water solutions Chris Code: unknown

14.2.3 International Transportation:

14.2.3.1 IMO:	Non-hazardous under IMO regulations
14.2.3.2 IATA:	Non-hazardous under IATA regulations
14.2.3.3 TDG (Canada):	Non-hazardous under TDG regulations
14.2.3.4 ADR (Europe):	Non-hazardous under ADR regulations
14.2.3.5 ADG (Australia):	Non-hazardous under ADG regulations

14.2.4 Emergency Response Guide: Not applicable

14.2.5 ERAP (Canada): Not applicable

14.2.6 Special Precautions: None

Section 15: REGULATORY INFORMATION

15.1 U.S. Federal Regulations:

15.1.1 OSHA: This product meets the criteria of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200).

15.1.2 TSCA: Product is contained in USEPA Toxic Substance Control Act Inventory

15.1.3 CERCLA: Reportable Quantity – Not applicable

15.1.4 SARA Title III:

15.1.4.1 Extremely Hazardous Substance (EHS): No

15.1.4.2 Section 312 (Tier II) Ratings:

Immediate (acute)	Yes
Fire	No
Sudden Release	No
Reactivity	No
Delayed (chronic)	No

15.1.4.3 Section 313 (FORM R): Not applicable

15.1.5 RCRA: Not applicable

15.1.6 CAA (Hazardous Air Pollutant/HAP): Not Applicable

REVISIONS: The entire SDS was reformatted to comply with the new Hazard Communication Standard dated March 26, 2012.

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