

Product Name Product id Revision date	Calcium Hardness Increaser 2025-AZ 20/12/2006	Revision: 1	
1. Identification of the substance & the company			
Chemical name	Calcium Chloride		
Chemical family	Inorganic salts		
Supplier	NAVA Water Products 95 MacCorkle Ave. SW, South Charleston, WV 25303 , USA Tel: (304) 746-3000		
Emergency Telephone	Chemtrec (800)424-9300 Medical 1-800-420-9236		

2. Composition / information on ingredients

Components CAS	Weight %	ACGIH-TLV Data	OSHA (PEL) Data
CALCIUM CHLORIDE 10043-52-4	94-97	Not determined	Not determined
SODIUM CHLORIDE 7647-14-5	1-2	Not determined	Not determined
POTASSIUM CHLORIDE 7447-40-7	2-3	Not determined	Not determined
Water 7732-18-5	0-2	Not determined	Not determined

3. Hazards identification

Emergency overview

White to off-white pellets. Odorless. Irritant to eyes May cause skin irritation

Potential Health Effects:

- Eye Contact

Pellets may cause mild irritation to the eyes. 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.



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- Skin contact	Short single exposure not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation even a burn. May cause more severe response if skin is damp or if material is confined to skin.	
- Inhalation - Ingestion	Vapors are unlikely due to physical properties. Dust may cause irritation to upper respiratory tract. May cause gastrointestinal irritation.	
4. First-aid measures		
Eye contact	Holding the eyelids apart, flush eyes promptly with copious flowing water for at least 20 minutes. Get medical attention immediately.	
Skin contact	Remove contaminated clothing. Wash skin thoroughly with mild soap and plenty of water for at least 15 minutes. Wash clothing before re-use. Get medical attention if irritation occurs and persists.	
Inhalation	In case of dust inhalation, remove person to fresh air. Keep him quiet and warm. Apply artificial respiration if necessary and get medical attention immediately.	
Ingestion	If swallowed, wash mouth thoroughly with plenty of water and give water to drink. Get medical attention immediately.	
	NOTE: Never give an unconscious person anything to drink.	
Note to physician	Treat symptomatically and supportively.	
5. Fire - fighting measures		
Flash point	None	

Flash point	None
Flammable/Explosion limits	Not applicable
Auto-ignition temperature	Not available
Suitable extinguishing media	Material is not combustible. Use extinguishing media appropriate to surrounding fire conditions.
Fire fighting procedure	Cool containers with water spray. In closed stores, provide fire-fighters with self- contained breathing apparatus in positive pressure mode. Contain runoff to prevent entry into water or drainage systems.



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5. Fire - fighting measure Unusual fire and explosion hazards	S Heat is generated when product mixes with water
6. Accidental release mea	sures
Personal precautions	Wear appropriate safety clothing and eye/face protection (see Section 8) Slipping hazard due to spilled product
Methods for cleaning up	Small spills: contain spilled material if possible. Collect in suitable and properly labeled containers. Large spills: Dike area to prevent spill from spreading. Collect in suitable and properly labeled containers. Wash spill site with water after material pickup is complete.
Environmental precautions	Prevent from entering into soil, ditches, sewers waterways and/or grounwater.
7. Handling and storage	
Handling	Avoid producing or diffusing dust into the air. Avoid bodily contact. Heat developed during dilluting or dissolving is very high. Use cool water (temperature less than 80°F, 27°C)
Storage	Keep containers tightly closed. Keep in a dry place. Do not store in zinc.
8. Exposure controls / pe	rsonal protection
Ventilation requirements	Use local exhaust as necessary, especially under dusty conditions. Ventilation must be sufficient to maintain TLV-TWA below 10 mg/m ³ (ACGIH recommendation for Particulates (Insoluble) Not Otherwise Specified (PNOS)).
Personal protective equipment: - Respiratory protection	Not normally required; In case of dust formation use an approved particulate respirator.
 Hand protection Eye protection Skin and body protection 	Protective gloves Safety glasses or goggles Body covering clothes and boots



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Hygiene measures	Safety shower and eye bath should be provided. Do not eat, smoke or drink where material is handled, processe hands carefully before eating or smoking	d or stored. Wash

9. Physical and chemical properties

Appearance Melting point/range Boiling point/range Vapour pressure Vapor density Solubility:	White pellets, odourless ~772°C (1424°F) >815°C <0.005 mmHg (20°C) Not applicable
- Solubility in water Specific gravity Decomposition temperature Partition coefficient (n-octanol/water)	Soluble 2.2 Not available Not applicable

10. Stability and reactivity

Stability	Hygroscopic.
	Stable under normal conditions
Materials to avoid	Flammable hydrogen may be generated from contact with metals such as: zinc, sodium.
	Heat is generated when mixed with water. Spattering and boiling can occur.
	Corrosive when wet.
	Avoid contact with sulfuric acid.
Conditions to avoid	Exposure to moisture
Hazardous decomposition	
products	None
Hazardous polymerization	Will not occur

11. Toxicological information

Acute toxicity: - Rat oral LD50 - Rabbit dermal LD50 Chronic toxicity	967-1668 mg/kg > 5000 mg/kg Not available
Mutagenicity	For Calcium Chloride, in vitro genetic toxicity studies were negative.



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11. Toxicological informat			
Carcinogenicity	Not classified by IARC. Not included in NTP 11th Report on Carcinogens.		
12. Ecological information	1		
Note:	Based largely or completely on data for major component. Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 >100 mg/L in most sensitive species).		
Persistence and degradability	Inhibitory concentration (IC50) in OECD Activated Sludge Respiration Inhibition Test is greater than 1000 mg/L		
13. Disposal considerations			
Waste disposal	Do not dump into sewers, on the ground, or into any body of water Observe all federal, state and local environmental regulations when disposing of this material.		
14. Transportation inform	ation		
DOT	Not regulated		
IMO	Not regulated		
ICAO/IATA	Not regulated		
15. Regulatory information			
USA	Reported in the EPA TSCA Inventory		
Sara 313	This product does not contain a chemical listed at or above de minimis concentrations.		
Sara (311, 312) hazard class	This product is categorized as an immediate health hazard.		
- Pennsylvania right to know list	Listed		



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- WASTE CLASSIFICATIONS	Not listed under CERCLA	
- Workplace Classification	This product is considered hazardous under the OSHA Hazard Comm Standard (29CFR 1910.1200).	unication
Canada	Listed in DSL	
WHMIS hazard class	D2B toxic materials	

16. Other information

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End of safety data sheet