

| 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