



# Calcium Chloride Solid

## 1. PRODUCT AND COMPANY IDENTIFICATION

|   |  |  |
|---|--|--|
| TETRA Technologies, Inc.<br>25025 I-45 North<br>The Woodlands, TX 77380 | CHEMTREC (24-Hr Emergency Response):   | U.S. Toll Free (800) 424-9300<br>International +1 703-527-3887 |
|   | Poison Control:  | (800) 222-1222   |
|   | Non-emergency Customer Service:  | (281) 367-1983   |
| Synonyms:   | Briners Grade, EXPRESS <sup>®</sup> , EXPRESS <sup>®</sup> RM, FCC Dry Food Grade Calcium Chloride, Ice Blaster <sup>®</sup> , TETRA 75 <sup>™</sup> C, TETRA 80 <sup>™</sup> C, TETRA 80 <sup>™</sup> HHP, TETRA 80 <sup>™</sup> MP, TETRA 94 <sup>™</sup> , TETRA Flake, TETRA SG <sup>™</sup> , WaterShield <sup>™</sup> , Winter Thaw <sup>™</sup> |  |
| Chemical Family:  | Inorganic Salt   |  |
| MSDS Creation Date:   | 15 Nov 04  |  |
| MSDS Revision Date:   | 20 Dec 07  |  |

## 2. HAZARDS IDENTIFICATION

|                           |  |
|---------------------------|--|
| HMIS Ratings: (Scale 0-4) | Health: 1      Fire: 0      Reactivity: 1  |
| EMERGENCY OVERVIEW:       | Odorless, white pellets/flake. Causes eye irritation. Avoid breathing dust. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Wash thoroughly after handling. Reacts with water to liberate heat. |
| Potential Health Effects  |  |
| Skin Contact:             | May cause minor irritation.  |
| Eye Contact:              | May irritate or burn eyes.   |
| Inhalation:               | Dust inhalation may cause irritation to mucous membranes and respiratory system  |
| Ingestion:                | Ingestion may cause nausea.  |

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

| CAS Number   | Wt. %   | Ingredient Name  |
|--|---------|------------------|
| 10043-52-4   | 74-100% | Calcium Chloride |
| Probable Contaminants: Calcium Carbonate, Calcium Hydroxide, Calcium Oxide, Alkali Metal Chlorides, Alkaline Earth Metal Chlorides |         |                  |

## 4. FIRST AID MEASURES

|                     |   |
|---------------------|---|
| Skin Contact:       | Remove contaminated clothing and shoes. Wash affected area with soap or mild detergent.   |
| Eye Contact:        | Immediately flush eyes thoroughly with large amounts of water for 15-20 minutes. Hold eyelids open during flushing. If irritation or adverse symptoms develop, seek medical attention.                |
| Inhalation:         | Remove from exposure area to fresh air. Give artificial respiration ONLY if breathing has stopped. Obtain medical attention immediately.  |
| Ingestion:          | Do not attempt to give anything by mouth to an unconscious person. If victim is alert and not convulsing, rinse mouth out and give 1/2 to 1 glass of water to dilute material. Get medical attention. |
| Notes to Physician: | Treat symptomatically and supportively.   |



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## 5. FIRE FIGHTING MEASURES

|                            |   |
|----------------------------|---|
| Flash Point:               | Not applicable  |
| Extinguishing Media:       | Use extinguishing media appropriate for surrounding fire.   |
| Fire Fighting:             | Move container(s) from fire area if you can do so without risk. Apply cooling water to sides of containers that are exposed to flames until well after the fire is out. Extinguish fire using agent suitable for type of surrounding fire and/or chemicals. Do not use water directly on material. Avoid breathing dusts/vapors. Keep upwind. Use self-contained breathing apparatus and protective clothing. Dike area to prevent runoff and contamination of water sources. |
| Fire and Explosion Hazard: | Negligible fire hazard when exposed to heat or flame.   |
| Products of Combustion:    | Non-combustible   |

## 6. ACCIDENTAL RELEASE MEASURES

|                        |  |
|------------------------|--|
| Evacuation and Safety: | Wear appropriate protective gear for the situation. See personal protection information in Section 8.              |
| Containment of Spill:  | Minimize air borne spreading of dust. For dry spills place material in covered, clean, dry container for disposal. |
| Cleanup and Disposal:  | Minimize air borne spreading of dust. For dry spills place material in covered, clean, dry container for disposal. |

## 7. HANDLING AND STORAGE

|           |  |
|-----------|--|
| Handling: | Avoid skin and eye contact and breathing dusts. Wash thoroughly after handling. Launder contaminated clothing before reuse.                                |
| Storage:  | Observe all federal, state, and local regulations when storing this product. Store in a covered, clean and dry container away from incompatible materials. |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

|  |  |
|--|--|
| Engineering Controls:  | Provide local exhaust ventilation system. Where there is possibility of exposure, eye wash fountain and safety shower should be provided within the immediate work area for emergency use. |
| <b>Exposure Limits:</b> ACGIH – (TLV-TWA) Guideline for nuisance particulate (inhalable particulate): 10 mg/m <sup>3</sup> |  |
| Personal Protective Equipment (PPE)  |  |
| Eyes:  | Wear safety glasses with side shields or safety goggles/shields.   |
| Hands and Feet:  | Wear appropriate protective non-leather protective gloves and boots.   |
| Body:  | Wear appropriate protective (impervious) clothing. Leather work boots and/or leather products will dehydrate with resultant shrinkage and possible destruction.                            |
| Respiratory:   | A respirator is not indicated under normal operating conditions. Use of a NIOSH approved respirator should be based upon the presence of nuisance dust.                                    |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |  |
|--|--|
| Description:                           | White pellets/flakes                       |
| Odor:                                  | Odorless                                   |
| Boiling Point:                         | >1600 °F (>871 °C)                         |
| Melting Point:                         | ~ 1439 °F (~772 °C)                        |
| Specific Gravity (H <sub>2</sub> O=1): | 2.15 @ 77 °F (25 °C)                       |
| Water Solubility:                      | 40% @ 68 °F (20 °C) with evolution of heat |
| Vapor Density (Air=1):                 | Not applicable                             |
| Vapor Pressure:                        | Not available                              |



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## 10. STABILITY AND REACTIVITY

|                           |   |
|---------------------------|---|
| Stability and Reactivity: | Reacts exothermically with water                        |
| Incompatibilities:        | Strong oxidizing agents.                                |
| Hazardous Decomposition:  | None under normal conditions.                           |
| Polymerization:           | Does not occur under normal temperatures and pressures. |
| Conditions to Avoid:      | None.   |

## 11. TOXICOLOGICAL INFORMATION

|                    |  |
|--------------------|--|
| Toxicity Data:     | <p>Anhydrous Calcium Chloride:<br/>                     TD<sub>LO</sub>: 112/kg, oral, 20 weeks, rat<br/>                     LD<sub>LO</sub>: 274 mg/kg, subcutaneous, dog<br/>                     LD<sub>50</sub>: 1000 mg/kg, oral, rat<br/>                     LD<sub>50</sub>: 264 mg/kg, intraperitoneal, rat<br/>                     See Registry of Toxic Effects of Chemical Substances (RTECS) file for mutagenic and tumorigenic data.</p> <p>Local Effects – Eye, mucous membrane and skin irritant<br/>                     Health Effects – Moderately toxic by ingestion. Slightly toxic by dermal absorption.</p> |
| Carcinogen Status: | OSHA – No      NTP – No      IARC – No   |

## 12. ECOLOGICAL INFORMATION

Product will not biodegrade or bioaccumulate.

## 13. DISPOSAL INFORMATION

Observe all federal, state, and local regulations when disposing of this substance.

## 14. DEPARTMENT OF TRANSPORTATION (DOT) TRANSPORT INFORMATION

|                           |                |
|---------------------------|----------------|
| Shipping Name:            | Not regulated  |
| ID Number:                | Not applicable |
| Hazard Class or Division: | Not applicable |
| Packing Group:            | Not applicable |
| Labeling Requirements:    | Not applicable |
| Packing Authorizations:   |                |
| Exceptions:               | Not applicable |
| Non-bulk Packing:         | Not applicable |
| Bulk Packing:             | Not applicable |
| Quantity Limitations:     |                |
| Passenger Aircraft:       | Not applicable |
| Cargo Aircraft Only:      | Not applicable |
| Vessel Stowage Req.:      | Not applicable |
| Emergency Guide Number:   | Not applicable |



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## 15. REGULATORY INFORMATION

|                            |  |
|----------------------------|--|
| Workplace Classification:  |  |
| SARA Title III:            | Section 311: Acute Hazard, Reactivity Hazard |
| TSCA Status:               | Yes  |
| CERCLA:                    | No   |
| EINECS Status:             | Yes  |
| OSHA Process Safety:       | No   |
| California Proposition 65: | No ingredients found on the list             |
| WHMIS Classification:      | D2B  |

## 16. OTHER INFORMATION

Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.

This information relates to the specific product designated and may not be valid for such product used in combination with any other materials or in any other processes. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the users' responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

TETRA Technologies, Inc. reserves the right to refuse shipment of this product to any consumer who fails to demonstrate the ability to consistently handle and use it safely and in compliance with all applicable laws, rules and regulations. Such demonstration may require on-site inspection of any or all storage, processing, packaging and other handling systems that come in contact with it.

Customers are responsible for compliance with local, state and federal regulations that may be pertinent in the storage, application and disposal of this product.