



# SAFETY DATA SHEET

Issuing Date : January 2005

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## 1. IDENTIFICATION

### GHS product identifier

**Product Name :** Calcium Chloride Solid

### Other means of identifications

**Synonyms :** Calcium Chloride Dihydrate, Briners Grade, Food Grade Calcium Chloride, Calcium Chloride 94%

**BNQ Standard 2410-3000 / 2009** Certificate # 1156

**Canadian Standard** CAN-CGSB-15.1-92

### Recommended use of the chemical and restrictions on use

**Recommended Use** For Diverse Applications

**Uses advised against** No information available

### Supplier's details

**Importer/Distributor :**  
SEL WARWICK INC.  
807 boul. Pierre-Roux Est  
Victoriaville, Qc Canada G6T 1T7  
TEL : 819-758-5229

**Manufacturer/Supplier :**  
TETRA Technologies Inc.  
369, Feed Mill Road  
Eldorado, AR 71730 USA

### Emergency telephone number

**Emergency Telephone Number** 819-758-5229

## 2. HAZARDS IDENTIFICATION

### Classification

Acute Oral Toxicity Category 4  
Serious Eye Damage/Eye Irritation Category 2

### GHS Label elements, including precautionary statements

#### Emergency Overview

Signal Word	Warning
<b>Hazard Statements</b> -Harmful if swallowed -causes serious eye irritations	

**Appearance** White**Physical State** Flake or pellet**Odor** Odorless**Precautionary Statements****Prevention**

- Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product
- Wear eye/face protection

**General Advice**

- None

**Eyes**

- IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention

**Ingestion**

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth

**Storage**

- None

**Disposal**

- Dispose of contents/container to an approved waste disposal plant.

**Hazard not Otherwise Classified (HNOC)**

Not applicable

**Other Information**

Wear hand protection

0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS
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**Synonyms** Calcium Chloride Dihydrate, Briners Grade, Food Grade Calcium Chloride, Calcium Chloride 94%

Chemical Name	CAS-No	Weight %
Calcium Chloride	10043-52-4	74-100
Water	7732-18-5	0-26
Sodium Chloride	7647-14-5	< 3
Potassium Chloride	7447-40-7	< 3
Magnesium Chloride	7786-30-3	< 0,5

**4. FIRST AID MEASURES**

**Description of necessary first-aid measures**

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Obtain medical attention if irritation persists.

**Skin contact** Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.

**Inhalation** Move to fresh air. Get medical attention immediately if symptoms occur.

**Ingestion** IF SWALLOWED : call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

**Protection for First-Aiders** Use personal protective equipment.

**Most important symptoms/effects, acute and delayed**

**Most important symptoms/effects** No information available

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician** Treat symptomatically

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** None

**Specific Hazards Arising from the Chemical**

Avoid generating dust, under certain conditions may cause respiratory irritation. Thermal decomposition can lead to release of irritating and toxic gases and vapors

**Explosion Data**

**Sensitivity to Mechanical Impact** None  
**Sensitivity to Static Discharge** None

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<b>NFPA</b>	<b>Health Hazard</b> 1	<b>Flammability</b> 0	<b>Instability</b> 1	<b>Physical and Chemical Hazards</b>
<b>HMIS</b>	<b>Health Hazard</b> 1	<b>Flammability</b> 0	<b>Physical Hazard</b> 1	

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Avoid contact with the skin and the eyes. Use personal protective equipment. Avoid dust formation.

**Environmental Precautions**

**Environmental Precautions** Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

**Methods and materials for containment and cleaning up**

**Methods for Containment** Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.

**Methods for Cleaning up** Take up mechanically and collect in suitable container for disposal. Use personal protective equipment.

7. HANDLING AND STORAGE
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**Precautions for safe handling**

**Handling** Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin and eyes. Wash thoroughly after handling. Avoid breathing dust. Avoid dust formation. Minimize dust generation and accumulation.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers. Keep in a dry place.

**Incompatible products** Zinc, Bromine tri-fluoride, Methyl vinyl ether

8. EXPOSURE CONTROLS / PERSONAL PROTECTION
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**Control Parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium Chloride 10043-52-4	ACGIH – (TLV-TWA) Guideline for nuisance particulate (inhalable particulate): 10 mg/m <sup>3</sup>	OSHA (PEL-TWA) – Z-3 Mineral Dusts, Inert or Nuisance dusts, (respirable fraction): 5 mg/m <sup>3</sup>	-

**Appropriate engineering controls**

**Engineering Measures** Provide local exhaust ventilations system. When there is a potential for exposure, an emergency eyewash and safety shower should be provided within the immediate work area.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Wear safety glasses with non-flexible side shields or chemical goggles

**Skin and Body Protection** **Hands and Feet** : Wear appropriate protective non-leather protective gloves and boots. Chemical protective gloves and boots such as PVC, Neoprene, or Heavy Nitrile are recommended. Leather products do not offer adequate protection and will dehydrate with resultant shrinkage and possible destruction.  
**Body** : Wear appropriate protective, impervious clothing.

**Respiratory Protection** A respirator is not indicated under normal operating conditions. Use of a NIOSH – approved (N95 or greater) should be based on the presence of nuisance dusts.

**Hygiene Measures**

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES
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**Information on basic physical and chemical properties**

<b>Physical State</b>	Flake or pellet
<b>Odor</b>	Odorless
<b>Appearance</b>	White
<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks / Method</u>
<b>pH</b>	Not applicable	None Known
<b>Melting Point/Range</b>	175-770 °C / 350-1420 °F	Estimated value(s)
<b>Boilint Point/Boiling Range</b>	175-1930 °C / 350-3500 °F	Estimated value(s)
<b>Flash Point</b>	Not applicable	None Known
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limits in Air</b>		
<b>Upper flammability limit</b>	No data available	
<b>Lower flammability limit</b>	No data available	
<b>Vapor Pressure</b>	Not applicable	None known
<b>Vapor Density</b>	Not applicable	None known
<b>Specific Gravity</b>	(H <sub>2</sub> O = 1) 2.15 @ 25°C / 77°F	None known
<b>Water Solubility</b>	40% @ 20°C (68°F) with evolution of heat	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Auto-ignition Temperature</b>	No data available	None known
<b>Decomposition Temperature</b>	No data available	None known
<b>Viscosity</b>	Not applicable	None known
<b>Flammable Properties</b>	Not flammable	
<b>Explosive Properties</b>	No data available	
<b>Oxidizing Properties</b>	No data available	
<b>Other information</b>		
<b>VOC Content (%)</b>	Not applicable	

10. STABILITY AND REACTIVITY
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**Reactivity**

No data available

**Chemical Stability**

Stable under recommended storage conditions

**Possibility of hazardous reactions**

Can only take place at very high temperature producing chlorine gas

**Hazardous Polymerization**

Hazardous polymerization does not occur

**Conditions to avoid**

Dust formation

**Incompatible materials**

Zinc, Bromine tri-fluoride, Methyl vinyl ether

**Hazardous decompositions products**

Chlorine gas

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	May cause irritation of respiratory tract
<b>Eye Contact</b>	Irritating to eyes
<b>Skin Contact</b>	May cause irritation
<b>Ingestion</b>	Harmful if swallowed

**Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Calcium Chloride	= 1000 mg/kg (Rat)	= 2630 mg/kg (Rat)	-
Potassium Chloride	= 2600 mg/mg (Rat)	-	-
Sodium Chloride	= 3 g/kg (Rat)	> 10 g/kg (Rabbit)	> 42 g/m <sup>3</sup> (Rat) 1h

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** May cause irritation to the respiratory system

**Delayed and immediate effects and also chronic effects from short and long term exposure**

<b>Eye damage/Irritation</b>	Irritating to eyes
<b>Sensitization</b>	No information available
<b>Mutagenic Effects</b>	No information available
<b>Carcinogenicity</b>	Contains no ingredients above reportable quantities listed as a carcinogen
<b>Reproductive Toxicity</b>	No information available
<b>STOT – single exposure</b>	No information available
<b>STOT – repeated exposure</b>	No information available
<b>Chronic Toxicity</b>	Avoid repeated exposure
<b>Aspiration Hazard</b>	No information available

**Numerical measures of toxicity – Product**

**Acute Toxicity** 0% of the mixture consists of ingredient(s) of unknown toxicity

*The following values are calculated based on chapter 3.1 of the GHS document :*

<b>LD50 Oral</b>	979 mg/kg; Acute toxicity estimate
<b>LD50 Dermal</b>	2630 mg/kg; Acute toxicity estimate

12. ECOLOGICAL INFORMATION
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**Ecotoxicity**

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Calcium Chloride 10043-52-4		LC50 96h = 10650 mg/L static (Lepomis macrochirus)		LC50 48h = 2400 mg/L (Daphnia magna)
Sodium Chloride 7647-14-5		LC50 96h = 5560-6080 mg/L flow-through (Lepomis macrochirus) LC50 96h: = 12946 mg/L static (Lepomis macrochirus) LC50 96h: 6020-7070 mg/L static (Pimephales promelas) LC50 96h: = 7050 mg/L semi-static (Pimephales promelas) LC50 96h: 6420-6700 mg/L static (Pimephales promelas) LC50 96h: 4747-7824 mg/L flow-through (Oncorhynchus mykiss)		EC50 48h: = 1000 mg/L (Daphnia magna) EC50 48h: 340.7-469.2 mg/L Static (Daphnia magna)
Potassium Chloride 7447-40-7	EC50 72h: = 2500 mg/L (Desmodesmus subspicatus)	LC50 96h: = 750-1020 mg/L static (Pimephales promelas) LC50 96h: = 1060 mg/L static (Lepomis macrochirus)		EC50 48h: = 825 mg/L (Daphnia magna) EC50 48h: = 83 mg/L Static (Daphnia magna)
Magnesium Chloride 7786-30-3	EC50: 2200 mg/L (Desmodesmus subspicatus 72h)	LC50 96h: 1970-3880 mg/L static (Pimephales promelas) LC50 96h: =4210 mg/L static (Gambusia affinis)	EC50=26140 mg/L 1h EC50=36300 mg/L 30 min. EC50=77200 mg/L 24h	EC50 48h = 140 mg/L (Daphnia magna) EC50 24h = 1400 mg/L (Daphnia magna)

**Persistence and Degradability**      Product is not biodegradable

**Bioaccumulation**                      Does not bioaccumulate

13. DISPOSAL CONSIDERATIONS
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**Waste Disposal Methods**              This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to the material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging**                Do not re-use empty containers

14. TRANSPORT INFORMATION
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**DOT**    Not Regulated

**TDG**    Not Regulated

**MEX**    Not Regulated

15. REGULATORY INFORMATION
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**International Inventories**

<b>TSCA</b>	Complies
<b>DSL</b>	Complies

**Legend**    **TSCA** – United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** – Canadian Domestic Substances List/Non-Domestic Substances List

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of the material.

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated by state right-to-know regulations.

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

16. OTHER INFORMATION
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<b>Prepared By</b>	Sel Warwick Inc 807 boul. Pierre-Roux Est Victoriaville, Qc G6T 1T7 819-758-5229
<b>Issuing Date</b>	January 2005
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<b>Revision Note</b>	Update to Format

**General Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.