



# MATERIAL SAFETY DATA SHEET

## C1000/C2000 Deicing Liquid

Last Updated August 19, 2011

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **C1000/C2000 Deicing Liquid**

CAS Number: Mixture

Synonyms: Calcium Chloride Solution

Company Identification: **Central Salt LLC**

385 Airport Road, Suite 108  
Elgin, IL 60123 USA  
1-847-608-8130 (For product information)  
1-620-257-5626 (For emergencies)  
1-847-608-8135 (Fax)

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

#### CONTAINING: HAZARDOUS AND/OR REGULATED COMPONENTS

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>	<u>OSHA PEL</u>	<u>ACGIH TWA</u>
Calcium Chloride Solution	30 - 35%	10043-52-4	Not Listed	Not Listed
Caliber	10 - 20%	Not Assigned	Not Listed	Not Listed
Water	45 - 60%	7732-18-5	Not Listed	Not Listed

**HAZARDS DISCLOSURE:** This product does require employee notification as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**CAUTION! CONTACT WITH SKIN AND EYES MAY CAUSE IRRITATION. INHALATION OF MIST MAY CAUSE RESPIRATORY IRRITATION. MAY CAUSE IRRITATION TO GASTROINTESTINAL TRACT IF SWALLOWED.**

HMIS/NFPA Rating: See Section 16

**POTENTIAL HEALTH EFFECTS:** This product is an irritant in case of skin contact, of eye contact, of ingestion, and of inhalation.

**ROUTES OF ENTRY:** Skin, Eyes, Inhalation, Ingestion.

**TARGET ORGANS:** None known

**INHALATION:** Inhalation of mist may cause irritation.

**INGESTION:** Ingestion of this product may cause irritation of the gastrointestinal tract.

**SKIN CONTACT:** Prolonged or repeated exposure to this product may cause irritation.

**EYE CONTACT:** Contact with eyes will cause irritation with pain, redness and tearing.

**CHRONIC EXPOSURE:** None Known

**AGGRAVATION OF PRE-EXISTING CONDITIONS:** Persons with pre-existing skin disorders may be more susceptible to the effects of the substance.

### 4. FIRST AID MEASURES

**INHALATION FIRST AID:** If breathing is difficult remove victim to fresh air and provide oxygen if necessary. If not breathing, give artificial respiration, preferably mouth to mouth. GET MEDICAL ATTENTION IMMEDIATELY.

**SKIN CONTACT FIRST AID:** Wash exposed skin with plenty of soap and water. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

**EYE CONTACT FIRST AID:** If contact with eyes, remove contact lenses if worn and immediately flush eyes with plenty of water for at least 15 minutes lifting upper and lower eyelids occasionally. GET MEDICAL ATTENTION IF IRRITATION OR BLURRED VISION OCCURS.

**INGESTION FIRST AID:** Induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. GET MEDICAL ATTENTION IMMEDIATELY.

# MATERIAL SAFETY DATA SHEET

## C1000/C2000 Deicing Liquid

Last Updated August 19, 2012

**NOTE TO PHYSICIANS:** Treat symptomatically and supportively

### 5. FIRE FIGHTING MEASURES

**FLAMMABLE PROPERTIES:** Not Flammable

**AUTO IGNITION TEMPERATURE:** Not Applicable

**FLASH POINT:** Not Applicable

**FLAMMABLE LIMITS IN AIR, % by Volume:** lel: NA%; uel: NA%

**EXTINGUISHING MEDIA:** Water spray, dry chemical, alcohol foam, or carbon dioxide.

**FIRE & EXPLOSION HAZARDS:** None Known

**SPECIAL INFORMATION:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

### 6. ACCIDENTAL RELEASE MEASURES

**SPILL CLEAN-UP PROCEDURES:** Contain and recover liquid if possible. Cover or absorb spilled liquid with sand, earth or other inert material. Clean up spill immediately and place in appropriate containers. Caution may create slippery conditions. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

U.S. Regulations (CERCLA) requires reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

### 7. HANDLING AND STORAGE

**RECOMMENDED STORAGE CONDITIONS:** Keep away from incompatibles such as oxidizing agents, acids.

**HANDLING (PERSONNEL):** Handle in accordance with good industrial hygiene and safety practices. Avoid contact with eyes, skin and clothing. If ingested, seek medical advice immediately and show the container or the label. Use with adequate ventilation. Avoid breathing dust. Wash thoroughly after handling.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Calcium Chloride:

-OSHA Permissible Exposure Limit (PEL): Not Listed

-ACGIH Threshold Limit Value (TWA): Not Listed

**VENTILATION SYSTEM:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

**PERSONAL RESPIRATORS (NIOSH APPROVED):** Not normally required with this product. If the exposure limit is exceeded, and engineering controls are not feasible, see 29CFR1910.134 for details.

**SKIN PROTECTION:** Not normally required with this product. Use good hygiene practices.

**EYE PROTECTION:** Use appropriate eye/face protection to prevent contact.

**GOOD HYGIENE CONDITIONS:** Wash with soap and water before meals and at the end of each work shift. Good manufacturing practices require amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid

**Odor:** Slight to no odor

**Vapor Pressure:** Not Applicable

**Evaporation Rate:** Not Applicable

**Boiling Point:** >212°F

**Decomposition Temperature:** Not available.

**Specific Gravity/Density:** 1.24 – 1.34

**Appearance:** Clear to light brown (Amber) color

**pH:** 6 - 9

**Vapor Density:** Not Available

**Viscosity:** Not Applicable

**Melting Point:** Not Available

**Solubility:** Soluble

# MATERIAL SAFETY DATA SHEET

## C1000/C2000 Deicing Liquid

Last Updated August 19, 2012

### 10. STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Stable

**CONDITIONS TO AVOID:** Incompatible materials.

**INCOMPATIBILITIES WITH OTHER MATERIALS:** Reactive with oxidizing agents, metals, acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:** When heated to decomposition it emits toxic fumes.

**HAZARDOUS POLYMERIZATION:** Will not occur.

### 11. TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL DATA:**

Calcium Chloride:

WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 918 - 1668 mg/kg [Rat.]. Acute dermal toxicity (LD50): >5000 mg/kg [Rabbit].

Other Ingredients:

No LD50 Data Available

**CARCINOGENIC EFFECTS:** No components of this product are listed as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP or OSHA.

**EPIDEMIOLOGY:** No information found

**TERATOGENICITY:** No information found

**REPRODUCTIVE EFFECTS:** Adverse reproductive effects have occurred in experimental animals.

**MUTAGENICITY:** No information found

**NEUROTOXICITY:** No information found Cancer Lists

### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL FATE:**

Possibly hazardous short term degradation products are not likely.

**ENVIRONMENTAL TOXICITY:**

The product itself and its products of degradation are not toxic.

### 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:**

Recover, reclaim or recycle when practical.

Dispose of material in accordance with federal, state and local requirements.

**CONTAMINATED MATERIALS:** Wash contaminated clothing before reuse.

### 14. TRANSPORTATION INFORMATION

Domestic (Land, D.O.T.), International (Water, I.M.O.), International (Air, I.C.A.O.)

**Proper Shipping Name:** Not a DOT controlled Material (Non-Regulated)

**Hazard Class:** NA

**UN/NA:** NA

**Packing Group:** NA

**ERG GUIDE NUMBER:** NA

**SUPPLEMENTAL HAZARD:** None

### 15. REGULATORY INFORMATION

**FEDERAL REGULATORY STATUS**

**U.S. SARA REPORTING REQUIREMENTS:** The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

**U.S. CERCLA REPORTABLE QUANTITY (RQ):** None

# MATERIAL SAFETY DATA SHEET

## C1000/C2000 Deicing Liquid

Last Updated August 19, 2012

**U.S. TSCA INVENTORY STATUS:** The components of this product are listed on the TSCA Inventory or are exempted from listing.

**SARA 311/312:** Acute: Yes    Chronic: No    Fire: No    Pressure: No  
Reactivity: No (Pure / Liquid)

**PROP 65 - WARNING:**

THIS PRODUCT DOES NOT CONTAIN A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

**CANADA:**

**CANADIAN DSL/NDL INVENTORY STATUS:** The components of this product are on the DSL Inventory, or are exempted from listing.

**WHMIS:** This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

WHMIS Classification: This product is not controlled by WHMIS.

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA). This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS). Other inventory lists:, Korea (TCCL), Australia (AICS), China (Draft), PICCS (Philippines-RA6969), Japan (ENCS METI/MOL).

### 16. OTHER INFORMATION

**Label Requirements:**

**CAUTION! CONTACT WITH SKIN AND EYES MAY CAUSE IRRITATION. INHALATION OF MIST MAY CAUSE RESPIRATORY IRRITATION. MAY CAUSE IRRITATION TO GASTROINTESTINAL TRACT IF SWALLOWED.**

<b>Hazardous Material Information System (HMIS):</b>	<b>Health</b>	<b>1</b>
	<b>Flammability</b>	<b>0</b>
	<b>Reactivity</b>	<b>0</b>
	<b>Personal Protection</b>	<b>A</b>

**National Fire Protection Association (NFPA) 1-Health, 0-Flammability, 0-Reactivity**

NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

Prepared By: Paul Eigbrett (MSDS Authoring Services)

Approval Date: August 19, 2012

Part Number: --

Supersedes Date: New

**ADDITIONAL INFORMATION:**

The data in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process. This Material Safety Data Sheet (MSDS) has been reviewed to fully comply with the guidance contained in the ANSI MSDS standard (ANSI Z400.1-2004)

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Central Salt LLC. The data on this sheet are related only to the specific material designated herein. Central Salt LLC assumes no legal responsibility for use or reliance upon these data.

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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END OF MSDS