

MATERIAL SAFETY DATA SHEET

Calcium Chloride Solution, 2.0%

SECTION 1 . Product and Company Identification

Product Name and Synonym: Calcium Chloride Solution, 2.0%

Product Code: 285-15

Material Uses:
Manufacturer: OFI Testing Equipment, Inc.
11302 Steeplecrest Drive
Houston, TX 77065 USA
Phone: (713) 880-9885
Fax: (713) 880-9886

Entry Date : 5/12/2010

Print Date: 8/2/2010

24 Hour Emergency Assistance : Chemtrec 800-424-9300
Canutec 613-996-6666

Health:	1			
Flammability:	0			
Reactivity:	0			
Hazard Rating:				
Least	Slight	Moderate	High	Extreme
0	1	2	3	4
NA = Not Applicable		NE = Not Established		

SECTION 2 HAZARD IDENTIFICATION

May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling.

Emergency Overview: Warning! Causes Irritation To Skin, Eyes And Respiratory Tract. Harmful If Swallowed Or Inhaled.

Inhalation: Effects are expected to be less severe than for exposure to higher concentrations where symptoms include irritation to the respiratory tract with coughing and shortness of breath.

Ingestion: Effects are expected to be less severe to exposure to higher concentrations where symptoms include irritation to the gastrointestinal tract with nausea, vomiting and diarrhea.

Skin: Effects are expected to be less severe than for exposure to higher concentrations where symptoms include irritation to the skin with redness, itching and pain.

Eye Contact: Effects are expected to be less severe than exposure to higher concentrations where symptoms include eye irritation, redness and pain.

Chronic Exposure: No Information Found.

Aggravated by Exposure: No Information Found.

SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	Calcium Chloride Approx. 4 mesh	CAS# 10043-52-4	2%	W/V	TXDS: LD ₅₀ (rat): 1.4 g/Kg
<input type="checkbox"/>	Water, Deionized ASTM Type II	CAS# 7732-18-5	Balance	V/V	None Established

SECTION 4 FIRST AID MEASURES

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May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling.

FIRST AID: SKIN: Wash exposed area with soap and water. If irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire
Fire / Explosion Hazards: May emit toxic fumes of chlorine under fire conditions.
Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Absorb spill with inert material. Flush excess down drain.
Ventilate Area of Leak or Spill. Wear Appropriate Personal Protective Equipment as Specified in Section 8. Contain and Recover Liquid when Possible. Collect Liquid in an Appropriate Container or Absorb with an Inert Material (Vermiculite, Dry Sand, Earth), and Place in a Chemical Waste Container. Do Not Use Combustible Materials, such as Saw Dust. Do Not Flush to Sewer.

SECTION 7 HANDLING AND STORAGE

This Material is not considered hazardous. Store in a cool, dry place. Handle using safe laboratory practices.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: None required
Ventilation
Local Exhaust
Mechanical
Protective Gloves: Gloves to prevent skin exposure as rubber or vinyl
Eye Protection: Splash Goggles
Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	~ 0° C	Percent Volatile by Volume:	~ 98%
Boiling Point:	~ 100° C	Evaporation Rate	information not available
Vapor Pressure:	not available	Evaporation Standard	
Vapor Density:	not available	Auto Ignition Temp	Not applicable
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Not applicable

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Appearance /Odors: Colorless, odorless liquid Upper Flamm. Limit in Air Not applicable
Flash Point: not flammable
Specific Gravity: ~ 1.01

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable
Conditions to Avoid: Temperature extremes
Materials to Avoid: Concentrated acids, and Bases
Hazardous Decomposition Products: may emit toxic fumes of chlorine under fire cond.
Hazardous polymerization: Will Not Occur
Conditions to Avoid: None known

SECTION 11 Toxicological Information

Carcinogenic References: NTP Carcinogen - Known: No, IARC Category- None

SECTION 12 Ecological Information

Environmental Fate: Based on available information for Calcium Chloride anhydrous, this material will not biodegrade or bioaccumulate.

Environmental Toxicity: The LC50/96-hour values for fish are over 100 mg/l.

SECTION 13 Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 Transport Information

DOT Classification: Not Regulated

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

SECTION 15 Regulatory Information

Chemical Inventory Status –
Part 1:Ingredient
Calcium Chloride (10043-52-4)
TSCA Yes
EC Yes
Japan YES
Australia Yes

Chemical Inventory Status –
Part 2:Ingredient
Calcium Chloride (10043-52-4)
Korea Yes
DSL Yes
NDSL No
Phil. Yes

Federal, State & International Regulations –
Part 1: Ingredient.
Calcium Chloride (10043-52-4)
RQ No
TPQ No

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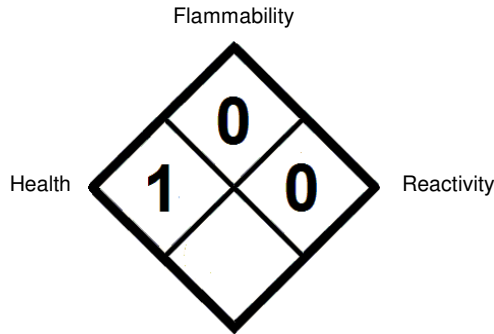
List NO
Chemical Catg No

Federal, State &
International Regulations –
Part 2:Ingredient
Calcium Chloride (10043-52-4)
CERCLA No
261.33 No
8(d) No

Chemical Weapons Convention: No
TSCA 12 (b):No
CDTA:No MIXTURE/LIQUID
SARA 311/312: Acute: YES
Chronic: No
Fire: No
Pressure: No
Reactivity: No
Australian Hazchem Code: None allocated
Poison Schedule: None allocated

SECTION 16 Additional Information

Overexposure symptoms. Acute: Possible irritation of eyes/stomach.
Chronic: None known. Conditions aggravated/Target organs: none known.
Causes irritation to skin, eyes and respiratory tract. Harmful if swallowed
or inhaled.



Revisions

	0	
8/2/2010	0.1	updated msds to 16 section from 10 section msds. STN

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