

# Safety Data Sheet



## C-Set

Version 1

### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

<b>1.1 Trade Name (as labeled):</b>	C-Set
Synonyms:	Liquid Calcium Chloride
CAS No:	10043-52-4
<b>1.2 Product Use:</b>	Concrete Acceleration
<b>1.3 Company Name:</b>	<b>SpecChem</b>
Company Address:	1511 Baltimore Ave; Suite 600
Company Address Cont:	Kansas City, MO 64108
Business Phone:	(816) 968-5600
Website:	<a href="http://www.specchemllc.com">www.specchemllc.com</a>
<b>1.4 Emergency Telephone Number:</b>	<b>VelocityEHS:</b> 1-(800)255-3924 (North America) +1-813-248-0585 (International) 1-300-954-583 (Australia) 0-800-591-6042 (Brazil) 400-120-0751 (China) 000-800-100-4086 (India) 800-099-0731 (Mexico)
Date of Last Revision:	July 1, 2018
Date of Current Revision:	October 5, 2023

### SECTION 2 – HAZARDS IDENTIFICATION

OSHA REGULATORY STATUS: This material is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

\*\*\*\*\*

#### EMERGENCY OVERVIEW:

This product is a clear liquid with low/no odor.

Major Health Hazards: Causes serious eye irritation. Causes skin irritation.

Precautionary Statements: Wash thoroughly after handling.

Contact Hazard - Skin: Category 2 - Causes skin irritation

Contact Hazard – Eye: Category 2A – Causes serious eye irritation

Acute Toxicity - Inhalation: No data available. Not classified.

Acute toxicity – Oral: Not classified.

Acute toxicity – Dermal: Not classified.

Carcinogenicity: Not classified.

**GHS Symbol:** Exclamation mark



**EU and GHS Symbols**

Signal Word

Warning

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**Components Contributing to Classification:**  
**GHS Hazard Classifications:**

Skin Irritation Category 2

**Hazard Statements:**

**Precautionary Statements:**

**Response Statements:**

**Storage Statements:**

**Disposal Statements:**

**Hazards Not Otherwise Classified (HNOC):**

Calcium Chloride **2.2 Label Elements:**

Eye Irritation Category 2A

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/Doctor if you feel unwell.

P330 Rinse mouth.

P302+P352 IF ON SKIN: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

None

P501 Dispose of contents/container in accordance with

local/regional/national/international regulations.

None identified

**2.3 Health Hazards or Risks From Exposure:**

**Symptoms of Overexposure by Route of Exposure:**

The most significant routes of overexposure for this product are by contact with skin or eyes. The symptoms of overexposure are described in the following paragraphs.

**Acute:**

Inhalation: Mist or spray may cause irritation, cough, shortness of breath, or sore throat.

Skin Contact: Contact may cause redness and irritation.

Eye Contact: May cause eye irritation.

Ingestion: May cause nausea, vomiting, diarrhea, and abdominal pain.

**Chronic:** No data available.

**Target Organs:**

Acute: Skin, Eyes

Chronic: N/A

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### SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	WT%	CAS No.	EINECS No.	Hazard Classification
Water	60-75%	7732-18-5	215-185-5	None
Calcium chloride	20-40%	10043-52-4	233-140-8	Acute Tox. 0, Skin Irrit. 2, Eye Irrit. 2A

**Note:** All WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250:2000

### SECTION 4 – FIRST AID MEASURES

#### **4.1 Description of First Aid Measures:**

**Eye Contact:** If product enters the eyes, flush with plenty of water or eye wash solution for several minutes. Remove contacts if present and easy to do. Seek medical attention if irritation persists.

**Skin Contact:** Wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.

**Inhalation:** If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

**Ingestion:** If product is swallowed, call physician or poison center immediately. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

**Medical Conditions Generally Aggravated By Exposure:**

Pre-existing skin, respiratory system or eye problems may be aggravated by prolonged contact.

**4.2 Symptoms and Effects Both Acute and Delayed:** Exposure to skin and eyes may cause irritation.

**4.3 Recommendations to Physicians:** Treat symptoms and eliminate overexposure.

### SECTION 5 – FIRE FIGHTING MEASURES

#### **5.1 Fire Extinguishing Materials:**

**Fire Hazard:** This material does not burn.

**Use the following fire extinguishing materials:** Use extinguishing agents appropriate for surrounding fire.

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### 5.2 Unusual Fire and Explosion Hazards:

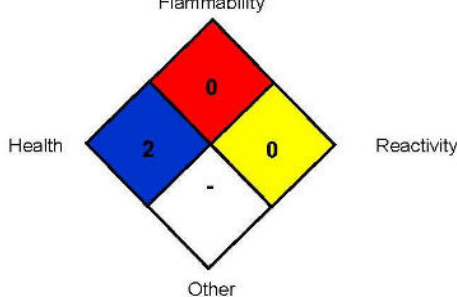






Irritating and toxic fumes may be produced at high temperatures. Use of water may result if the formation of a toxic aqueous solution. Do not allow run-off from fire fighting to enter drains or water courses.

Explosive Sensitivity to Mechanical Impact: No

Explosive Sensitivity to Static Discharge: No

### 5.3 Special Fire-Fighting Procedures:

- Incipient fire responders should wear eye protection.
- Structural firefighters must wear Self-Contained Breathing Apparatus (SCBA) and full protective equipment.
- Isolate materials not yet involved in the fire and protect personnel.
- Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray.
- If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.

NFPA RATING SYSTEM		HMIS RATING SYSTEM HAZARDOUS MATERIAL IDENTIFICATION SYSTEM													
		HEALTH HAZARD (BLUE)	2												
		FLAMMABILITY HAZARD (RED)	0												
		PHYSICAL HAZARD (YELLOW)	0												
<table border="1"> <thead> <tr> <th colspan="4">PROTECTIVE EQUIPMENT</th> </tr> <tr> <th>EYES</th> <th>RESPIRATORY</th> <th>HANDS</th> <th>BODY</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">See Sect 8</td> <td style="text-align: center;"></td> <td style="text-align: center;">See Sect 8</td> </tr> </tbody> </table>				PROTECTIVE EQUIPMENT				EYES	RESPIRATORY	HANDS	BODY		See Sect 8		See Sect 8
PROTECTIVE EQUIPMENT															
EYES	RESPIRATORY	HANDS	BODY												
	See Sect 8		See Sect 8												
Hazard Scale: 0 = Minimum 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic Hazard															

## SECTION 6 – ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves, and eye/face protection.

### 6.2 Environmental Precautions:

Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.

### 6.3 Spill and Leak Response:

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### Small Spills:

- Collect material via broom or mop. Place in tightly sealed containers for proper disposal.
- Approach spill areas with caution.
- If liquid was introduced, create a dike or trench to contain material.
- Soak up with absorbent material such as clay, sand or other suitable non-reactive material.

### Large Spills:

- Place in leak-proof containers. Seal tightly for proper disposal.
- Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

## SECTION 7 - HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling:

To prevent eye contact under the foreseeable conditions of use, wear appropriate safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling.

### 7.2 Storage and Handling Practices:

Keep away from incompatible materials. Keep container closed when not in use and store in well ventilated area.

### 7.3 Specific Uses:

Accelerating concrete admixture.

## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Exposure Parameters:

Ingredients	CAS No.	OSHA PEL	NIOSH PEL
Calcium Chloride	10043-52-4	Not Listed	Not Listed

### 8.2 Exposure Controls:

#### **Ventilation and Engineering Controls:**

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

*The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132), or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.*

#### **Respiratory Protection:**

Not required for properly ventilated areas. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the

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**Eye Protection:**

European Standard EN149, or EU member states.

Safety glasses or goggles are required. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

**Hand Protection:**

Chemical resistant gloves are required to prevent skin contact.

If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

**Body Protection:**

Use body protect appropriate to task being performed.

If necessary, refer to appropriate Standards of Canada, or appropriate standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information on Basic Physical and Chemical Properties:**

**Appearance (Physical State and Color):** Liquid

**Odor:** Characteristic

**Odor Threshold:** No data available

**pH:** 7-9

**Melting/Freezing Point:** No data available

**Boiling Point:** 120°C (248°F)

**Flash Point:** Not available

**Evaporation Rate:** No data available

**Flammability (Solid; Gas):** Not applicable

**Upper/Lower Flammability or Explosion Limits:** Not data available

**Vapor Pressure (mm Hg @ 25°C (77° F):** 7-15

**Vapor Density:** No data available

**Relative Density:** No data available

**Specific Gravity:** 1.29 – 1.40 at 25°C (77°F)

**Solubility in Water:** Fully miscible

**Weight per Gallon:** No data available

**Partition Coefficient (n-octanol/water):** No data available

**Auto-Ignition Temperature:** No data available

**Decomposition Temperature:** No data available

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**Viscosity:** No data available

**9.2 Other Information:** No data available

### SECTION 10 – STABILITY AND REACTIVITY

**10.1 Reactivity:**

Hygroscopic.

**10.2 Stability:**

Stable under conditions of normal storage and use.

**10.3 Possibility of Hazardous Reactions:**

Calcium chloride may form hydrogen chloride in presence of sulphuric or phosphoric acids.

**10.4 Conditions to Avoid:**

Contact with incompatible materials. Exposure to heat.

**10.5 Incompatible Substances:**

Strong acids. Strong oxidizers.

**10.6 Hazardous Decomposition Products:**

Formed under fire conditions: hydrogen chloride gas, calcium oxide.

### SECTION 11 – TOXICOLOGY INFORMATION

**11.1 Information on Toxicological Effects:**

**Toxicity Data:**

Calcium Chloride	10043-52-4	LD50 Oral – Rat	1000 mg/kg
		LD50 Demal – Rat	2630 mg/kg

**Suspected Cancer Agent:**

Ingredients within this product are not found on one or more of the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are considered to be cancer-causing agents by these agencies.

**Irritancy:**

Skin and Eye Irritant.

**Sensitization to the Product:**

This product is not expected to cause skin sensitization.

**Germ Cell Mutagenicity:**

This product does not contain ingredients that are suspected to be a germ cell mutagenic.

**Reproductive Toxicity:**

This product is not expected to be a human reproductive toxicant.

### SECTION 12 – ECOLOGICAL INFORMATION

**12.1 Toxicity:**

Calcium Chloride	10043-52-4	LC50 – Bluegill	8,350-10,650mg/l
		LC50 – Water Flea	759-3,005mg/l

**12.2 Persistence and Degradability:**

No specific data available on this product.

**12.3 Bioaccumulative Potential:**

No specific data available on this product.

**12.4 Mobility in Soil:**

No specific data available on this product.

**12.5 Results of PBT and vPvB Assessment:** No specific data available on this product.

**12.6 Other Adverse Effects:**

No data available

**12.7 Water Endangerment Class:**

At present, there are no ecotoxicological assessments for this product.

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### SECTION 13 – DISPOSAL CONSIDERATIONS

**13.1 Waste Treatment Methods:**

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Australia, EU Member States and Japan.

**13.2 EU Waste Code:**

Not determined

### SECTION 14 - TRANSPORTATION INFORMATION

**14.1 U.S. Department of Transportation (DOT) Shipping Regulations:**

*This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.*

**UN Identification Number:** Not applicable

**Proper Shipping Name:** Not regulated

**Hazard Class Number and Description:** Not applicable

**Packing Group:** Not applicable

**DOT Label(s) Required:** Not applicable

**North American Emergency Response Guidebook Number:** Not applicable

**14.2 Environmental Hazards:**

**Marine Pollutant:**

The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

**14.3 Special Precaution for User:** None

**14.4 International Air Transport Association**

**Shipping Information (IATA):**

Not regulated.

**14.5 International Maritime Organization**

**Shipping Information (IMO):**

**UN Identification Number:** Not applicable

**Proper Shipping Name:** Not regulated

**Hazard Class Number and Description:** Not applicable

**Packing Group:** Not applicable

**EMS-No:** Not applicable

### SECTION 15 – REGULATORY INFORMATION

**15.1 Safety, Health and Environmental Regulations Specific for the Substance or Mixture:**

United States Regulations:

**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. SARA 311/312:**

Acute Health: Yes; Chronic Health: No; Fire: No; Reactivity: No

**U.S. CERCLA Reportable Quantity:**

None



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### **U.S. TSCA Inventory Status:**

The components of this product are listed on the TSCA Inventory or are exempted from listing.

### **Other U.S. Federal Regulations:**

None known

### **California Safe Drinking Water and Toxic Enforcement Act (Proposition 66):**

This product does not contain ingredients on the Proposition 65 Lists.

### **15.2 Canadian Regulations:**

#### **Canadian DSL/NDSL Inventory Status:**

Components are DSL Listed, NDSL Listed and/or are exempt from listing

#### **Other Canadian Regulations:**

Not applicable

#### **Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

#### **Canadian WHMIS Classification and Symbols:**

This product is Class B2, Flammable Liquid, and D2B, Materials causing other toxic effects, per WHMIS Controlled Product Regulations.



### **15.3 European Economic Community Information:**

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for Details.

#### **Chemical Safety Assessment:**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

### **15.4 Australian Information for Product:**

Components of this product are listed on the International Chemical Inventory list.

### **15.5 Japanese Information for Product:**

Japanese Minister of International Trade and Industry (MITI) Status: The components of this product are not listed as Class I specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

### **15.6 International Chemical Inventories:**

Listing of the components on individual country Chemical Inventories is as follows:

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed

U.S. TSCA: Listed

## SECTION 16 – OTHER INFORMATION

Prepared By: Chris Eigbrett (MSDS to GHS Compliance)

Date of Printing: July 1, 2018

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. SpecChem assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, SpecChem assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

**END OF SDS SHEET**