

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name:

BAC-XXX, Calcium Chloride Additives

Revision Number:

4.0

Synonyms:

Calcium Chloride-2-hydrate

Use of the Substance / Preparation:

Calcium Chloride Electrolyte Additive for Hemodialysis Concentrate

Company Name:

Di-Chem, Inc.
12297 Ensign Ave N
Champlin, MN 55316
763-422-8311

Emergency response telephone number:

CHEMTREC (US): 1-800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview:

Warning. Harmful if swallowed. Irritating to eyes.

Appearance:
Powder / Granular


Physical State:
White Solid

Odor:
Odorless

GHS Classification:

Acute Toxicity, Oral	Category 4
Serious Eye Damage / Eye Irritation	Category 2
Hazards Not Otherwise Classified	None

GHS Label Elements:

Signal Word:	Warning
GHS Hazard Pictogram(s):	
Hazard Statement(s):	H319 Causes serious eye irritation. H302 Harmful if swallowed.
Precautionary Statement(s):	P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301+P312 If swallowed call a poison center if you feel unwell. P351 If in eyes: Rinse cautiously with water for several minutes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name:	Molecular Formula:	CAS-No:	Weight %:
Calcium Chloride	CaCl ₂ *2H ₂ O	10035-04-8	100

4. FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water. If symptoms persist, call a physician.
Skin Contact:	Wash off exposed area with soap and plenty of water. If skin irritation persists, call a physician.
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician.
Inhalation:	Move to fresh air. If symptoms persist, call a physician.
Note to Physicians:	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties:

Not Flammable.

Extinguishing Media:

Dry chemical; Carbon dioxide (CO₂); Water spray; Foam.


Unsuitable Extinguishing Media:

No information available.

Protective Equipment and Precautions for Firefighters:

In the event of a fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	1	Flammability	0	
Stability and Reactivity	1	Physical hazard	None known	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with skin and eyes. Avoid dust formation. Use personal protective equipment.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so.
Methods for Clean up:	Clean up and transfer to properly labeled containers. Avoid dust formation. Keep in suitable, closed containers for disposal. For disposal information see section 13.

7. HANDLING AND STORAGE

Handling:	Wear personal protective equipment. Avoid contact with skin and eyes. Use in areas provided with appropriate ventilation.
Storage:	Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep away from incompatible substances.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

This product contains no substances with occupational exposure limit values.

OSHA - Permissible exposure limit (PEL): Not established

ACGIH - Threshold limit value (TLV): Not established

General Hygiene Considerations:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Engineering Controls:

Adequate ventilation. Eyewash stations.

Personal Protective Equipment (PPE)

Eye/Face Protection:	Safety glasses or Goggles.
Skin and Body Protection:	If irritation is experienced wear gloves and suitable protective clothing to avoid skin contact.
Respiratory Protection:	If irritation is experienced wear a NIOSH-approved mask/respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White
Physical State	Solid: Powder / Granular
Odor	Odorless
Odor Threshold	No data available

pH	4.5-8 at 5 weight percent at, 20°C
Dissociation Constants (pKa)	No data available
Flash Point	No data available
Autoignition Temperature	No data available
Boiling point	ca. 1,900 °C at 1,013 hPa
Melting/Freezing Point	765 °C
Decomposition temperature	No data available
Oxidizing Properties	No data available
Flammability Limits in Air	No data available
Explosion Limits	No data available
Solubility(ies)	
Water Solubility	830 g/l at 20 °C
Relative Density	No data available
Bulk Density	ca. 700 kg/m ³
Viscosity	No data available
Explosive Properties	No data available

10. STABILITY AND REACTIVITY

Stability: Not applicable. Stable under normal conditions.

Conditions to Avoid: Avoid dust formation. Exposure to moisture. Incompatibles.

Incompatible Materials: Strong oxidizing agent, Zinc, BARIUM CHLORIDE, Calcium oxide, Boric Acid, Bromine Trifluoride, Methyl Vinyl Ether, Furan-2-percarboxylic acid.

Hazardous Decomposition Products: In case of fire hazardous decomposition products may be produced, such as: Calcium oxide, Gaseous hydrogen chloride (HCl).

11. TOXICOLOGICAL INFORMATION

Product Information:

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.

Chemical Name	Oral LD ₅₀ :	Dermal LD ₅₀ :	LC ₅₀ (Lethal Concentration):
Calcium Chloride	500-1000 mg/kg (Rabbit)	2,630 mg/kg (Rat)	

Chronic Toxicity:

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not classified for aquatic toxicity. Contains no substances known to be hazardous to the environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia (Water flea)
Calcium Chloride	n/a	LC50 10,650 mg/L (Lepomis macrochirus)	LC50: 3,005mg/L

Persistence/Degradability: No data available.

Mobility: Soluble in water.

Bioaccumulation: No data available.

13. DISPOSAL CONSIDERATIONS

Waste from Residues/Unused Products: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Packaging: Empty containers should be decontaminated and taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT – Not Regulated
TDG – Not Regulated
MEX – Not Regulated
ICAO – Not Regulated
IATA – Not Regulated
IMDG/IMO – Not Regulated

15. REGULATORY INFORMATION

International Inventories:

All of the components in the product are on the following Inventory lists:

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	AICS	ENCS ISHL	CHINA	PICCS	KECL	NZLoC
Calcium Chloride	Yes	Yes	-	Yes	-	Yes	Yes	Yes	-	-	Yes

US Federal Regulations:

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 this material.

SARA 313:

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 Hazardous Categorization:

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

US State Regulations:

California Proposition 65: This product does not contain any Proposition 65 chemicals.

No known components subject to "Right-To-Know" legislation in the following States: Massachusetts, Minnesota, New Jersey, Pennsylvania.

16. OTHER INFORMATION

Prepared By: Di-Chem, Inc.

Original Preparation Date: 14-May-2015

Revision Date: 01-December-2025

Revision Number: 4.0 - This version replaces all previous versions.

HMIG Rating

Health: 1

Flammability: 0

Reactivity: 1

Personal Protection: A

Disclaimer:

Please be advised that it is your responsibility to inform your employees of the hazards of this substance, to advise them of what these properties mean and be sure they understand exposure information. The information provided in this Safety Data Sheet 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.

END OF SAFETY DATA SHEET