

Safety Data Sheet

GHS-Compliant

May be used to comply with
OSHA's Hazard Communication Standard
29 CFR 1910.1200. Standard must be
consulted for specific requirements



Bison Laboratories, Inc.

100 Leslie Street, Buffalo, NY 14211

PRODUCT IDENTITY	Safety Data Sheet Revision Date	January 20, 2021
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Section 1 - Identification

Product Name WINTER CONDITIONER	Cas #
Synonym Calcium Chloride - Liquid	Chemical Formula
Chemical Name	Chemical Family Inorganic Salt
Product Use Pool Chemical Winterizer	
Manufacturer/Supplier Name Bison Laboratories, Inc.	Address 100 Leslie Street, Buffalo, NY 14211-1621
General Information 1-716-895-2707	Country USA
Emergency Telephone 1-716-895-2707	Transportation Emergency Number CHEMTREC 1-800-424-9300

Section 2 - Hazards Identification

GHS Classification : Serious Eye Damage/Eye Irritation - Category 2A

GHS Label Elements:

Pictogram(s)



Signal Word: WARNING

GHS Label:

<i>Hazard Statements</i>	<i>Precautionary Statements</i>
Causes serious eye irritation	Response:
Harmful if swallowed	Rinse immediately with plenty of water, also under eyelids, for at least 15 minutes, keep eye wide open while rinsing. Remove contact lenses if present and easy to do so. Obtain medical attention if irritation persists.
	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.

Section 3 - Composition/Information on Ingredients

Component Description	Percent	CAS #
Calcium Chloride	27-38%	10043-52-4
Water	62-73%	7732-18-5
Alkali Chlorides	< 6%	N/A

Section 4 - First Aid Measures

Ingestion:

If swallowed will cause nausea and vomiting. If victim is conscious, have victim drink water. If victim is unconscious or having convulsions, do nothing except keep victim warm. GET MEDICAL ATTENTION.

Inhalation:

Move to fresh air; if breathing is difficult or discomfort persists, GET MEDICAL ATTENTION

Skin:

Cause mild irritation. May cause more severe response if skin is abraded (scratched or cut). Additional effects may include blisters or sores.

Eyes:

Rinse immediately with plenty of water, also under eyelids, for at least 15 minutes, keep eyes wide open while rinsing. Obtain medical assistance if irritation persists.

Medical Conditions:

N/A

Effects of Overexposure:

N/A

SUMMARY OF ACUTE HEALTH HAZARDS

Ingestion:

May irritate gastrointestinal tract and cause nausea and vomiting.

Inhalation:

Causes irritation of nose and throat. Additional effects may include shortness of breath.

Skin:

Causes mild irritation. May cause more severe response if skin is abraded (scratched or cut). Additional effects may include blisters or sores.

Eyes:

Causes irritation and possible transient corneal injury. Tearing may occur.

Note to Physicians:

If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Summary of Chronic Health

May cause perforation of the nasal septum and nosebleeds. Contact with heated product can cause thermal burns with resultant corneal injury.

Section 5 - Fire Fighting Measures

Extinguishing:

This product is non-flammable

Special Exposure Hazards:

Avoid breathing corrosive vapors; keep upwind

Special Protective Equipment for Firefighters:

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes fire-fighting helmet, coat, trousers, boots and gloves).

Fire Fighting Procedures

N/A

NFPA Rating

Health	1
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Flammability	0
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Instability	0
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Uniform Fire Code Rating

N/A

Section 6 - Accidental Release Measures

Personal Precautions

Keep authorized personnel from entering the area. Spilled material may cause a slipping hazard.

Emergency Procedures

Isolate area.

Methods of Containment And Clean-Up

Dike the spilled liquid, and either pump back into original container or cover with sand or clay-type substance for absorption.

Section 7 - Handling and Storage

Safe Handling

Store at ambient temperature. Eye wash and safety shower should be provided within the immediate work area for emergency use
Launder contaminated clothing before re-use. Prevent possible eye and skin contact by wearing protective clothing and equipment.

Storage

Protect from atmospheric moisture.

Work/Hygenic Practices

Avoid contact with the eyes, skin, and mucous membranes. Wash hands thoroughly with soap and water before eating, drinking, smoking or using toilet facilities. Do NOT place food, coffee or other drinks in the area where dusting or splashing of solutions is possible.

Ventilation

Use local exhaust in enclosed areas. Natural ventilation for outdoor areas.

Section 8 - Exposure Controls / Personal Protection

OCCUPATIONAL EXPOSURE LIMITS

Calcium Chloride Liquid

Exposure Limits (TWA's) in Air

Cas Number	IDLH	STEL	ACGIH TLV	OSHA PEL
10043-52-4	N/A	N/A	N/A	N/A

Protective Equipment

Employees should be provided with and use impervious clothing, rubber gloves, and rubber boots. Leather work boots and/or leather products will dehydrate with resultant shrinkage and possible destruction.

Eye Protection

Employees should be provided with and required to use splash proof safety goggles and splash shields where there is any possibility of calcium chloride contacting the eyes.

Respiratory Protection

Respirator Protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection as indicated by your risk assessment process. In misty atmospheres, use an approved particulate respirator.

Section 9 - Physical and Chemical Properties

Appearance: Clear to straw colored liquid	Odor: Odorless
Odor Threshold: N/A	pH: 5 @ 5% Solution
Melting Point/Freezing Point: 51° C @ 29.6%	Initial Boiling Point/Range: 118° C (244° F) for 38% Solution
CaCl ₂ 9° C @ 38% CaCl ₂	115° C for 34.7% Solution
Flash Point: Non-Flammable	Evaporation Rate (BuAc=1): N/A
Flammability: N/A	Lower/Upper Explosive Limit: N/A
Vapor Pressure (mmHg): 9-16 @ 25° C	Vapor Density (Air=1) : N/A
Relative Density: N/A	Solubility in Water: 100%
Partition Coefficient: N/A	Autoignition Temperature: Non-Flammable
Decomposition Temperature: N/A	Viscosity: N/A
% Volatiles: 62-73%	Specific Gravity: (Water=1): 1.26 @ 77° F; 1.39 @ 77° F
Molecular Weight: 110.99 (for pure CaCl ₂)	VOC: N/A

Section 10 - Stability and Reactivity

Reactivity:

N/A

Chemical Stability:

Stable

Possibility of Hazardous Reactions or Polymerizations:

Hazardous polymerization will not occur

Conditions to Avoid :

N/A

Incompatible Materials:

Boric acid and calcium oxide are incompatible.

Hazardous Decomposition Products:

If liquid completely dries from fire, thermal decomposition products may include toxic and corrosive fumes of chlorine and hydrogen chloride. Product may react with some metals (aluminum, zinc, tin, etc.) to release flammable hydrogen gas.

Section 11 - Toxicology Information

Acute and Chronic Effects: See Section 4

Routes of Exposure:

Ingestion: Yes
Inhalation: No
Skin: Yes
Eyes: Yes

Symptoms related to Physical, Chemical & Toxicological Characteristics:

N/A

Numerical Measures of Toxicity:

Toxicity Data (anhydrous calcium chloride)

TDLO: 112 g/kg, oral, 20 weeks, rat

LDLO: 274 mg/kg, oral, rat

LD50: 1000 mg/kg, oral, rat

LD50: 264 mg/kg

Moderately toxic by ingestion, slightly toxic by dermal absorption.

Chronic Toxicity:

N/A

Target Organs:

N/A

Carcinogenicity:

Product Name: Calcium Chloride Liquid

ACGIH	IARC	EPA	NIOSH	NTP	OSHA
No	No	No	No	No	No

Section 12 - Ecological Information

Ecotoxicity:

N/A

Persistence and Degradability:

N/A

Mobility in Soil:

N/A

Section 13 - Disposal Considerations

Disposal of Container: Dispose of in accordance with local, state and federal regulations

Section 14 - Transportation Information

Shipped as a limited quantity per 49 CFR 173.154(b)

Section 15 - Regulatory Information

SARA 302 Extremely Hazardous Substances (EHS):

No chemical in this product is listed as an Extremely Hazardous Substance (EHS) under section 302 of EPCRA.

SARA 304 Extremely Hazardous Substances (EHS) Release Notification:

No chemical in this product is listed as an Extremely Hazardous Substance (EHS) which, if released to the environment in quantities at or above the substance's Reportable Quantity (RQ), would require reporting to the SERC and LEPC under Section 304 of EPCRA.

SARA 311 / 312 Hazards:

Acute: No Chronic: No Flammability: No Pressure: No Reactivity: No

SARA 313 Reportable Chemicals:

No chemical in this product is subject to annual emissions, transfers, or waste management reporting under the Community-Right-to-Know provisions of EPCRA Section 313, also known as the Toxic Release Inventory (TRI) Report or Form R.

CERCLA Hazardous Substances:

No chemical in this product is listed as a CERCLA hazardous substance subject to the National Response Center (NRC) release reporting requirements.

Clean Air Act (CAA) Section 112® Air Pollutants:

No chemical in this product is listed as an air pollutant under the U.S. Clean Air Act, Section 112® (40 CFR 61).

TSCA (Toxic Substances Control Act):

All chemical substances in this product are listed on the U.S. TSCA Inventory List.

California Prop 65 Chemicals:

This product does not contain any chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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

Acronyms:

CAS # - Chemical Abstract Services Registry Number

CFR - Code of Federal Regulations

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

EPCRA - Emergency Planning and Community Right-to-Know Act.

LEPC - Local Emergency Planning Committee

SERC - State Emergency Response Commission

Section 16 - Other Information

National Fire Protection Association (NFPA) Ratings:					
Health	1	Flammability	0	Reactivity	0
Hazardous Material Identification System (HMIS):					
Health	1	Flammability	0	Reactivity	0

Revision Date: 6/1/2015
Supercedes: 5/8/1998
Section(s) Changed Since Last Revision: MSDS to First Issue SDS Conversion

Disclaimer of Liability

This SDS has been prepared in accordance with the Globally Harmonized System of Chemical and Labeling of Chemicals (Fifth Edition and the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The SDS information is based on sources believed to be reliable. Available data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control; Bison Laboratories, Inc. makes no warranty, either expressed or implied, to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks and exercise appropriate precautions for protection of employees and others prior to use.

Prepared by Bison Laboratories, Inc., 100 Leslie Street, Buffalo, NY 14211