

Safety Data Sheet

1 – Product and Company Identification

Trade Name: Heat Wave
Synonyms: Liquid calcium chloride
Product use: Anti-ice, de-ice, ice melter
Restrictions: None known
Manufacturer: Custom Salt Solutions LLC
Contact Address: 900 N Nelson St Ste B
Spokane, WA 99202
Telephone Number: 888.489.3101
509.489.3100
Website: www.customsaltsolutions.com
**Emergency Telephone
Number (Cemtrec):** 800.424.9300

2 – Hazard Identification

Classification: Serious eye damage/eye irritation – Category 2A
Signal Word: WARNING
Hazard Statement: H319: Causes serious eye irritation.
H315: Causes skin irritation.

Pictogram:



Precautionary Statements

Response: 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 attention.
P302+P352: IF ON SKIN (or hair): Wash with plenty of water.
P332+P313: If skin irritation occurs: get medical advice/attention.



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

Prevention:

P280: Wear eye or face protection.
P264: Wash hands thoroughly after handling.

Storage:

N/A

Disposal:

N/A

3 – Composition/Information on Ingredients

Chemical Name:	CAS. Reg. No.	Weight %
Calcium Chloride	10043-52-4	26%
Corrosion Inhibitor	Proprietary	5%
Water	007732-18-5	69%

4 – First Aid

Eyes:

Promptly flood with water and continue washing for at least 15 minutes. Consult an ophthalmologist.

Inhalation:

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

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 and GET THEM MEDICAL ATTENTION.

Skin:

If necessary, remove contaminated clothing and shoes. Flush affected areas with plenty of water for at least 15 minutes.

Medical Conditions:

N/A

Effects of Overexposure:

N/A

Summary of Acute Health Hazards

Eyes:

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



Inhalation:	Causes irritation of nose and throat. Additional effects may include shortness of breath.
Ingestion:	May irritate gastrointestinal tract and cause nausea and vomiting.
Skin:	Causes mild irritation. May cause more severe response if skin is abraded (scratched or cut). Additional effects may include blisters or sores.
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.
<u>Summary of Chronic Health:</u>	May cause perforation of the nasal septum and nosebleeds. Contact with heated product can cause thermal burns with resultant corneal injury.

5 – Fire Fighting Measures

Extinguishing:	This product is non-flammable
Exposer Hazards:	Avoid breathing corrosive vapors; keep upwind. Dike area to prevent runoff and contamination of water sources
Protective Equipment for Fire Fighting:	Self-contained breathing apparatus (SCBA) and full protective gear
Fire Fighting Procedures:	N/A
NFPA Rating:	Health - 1 Flammability - 0 Instability - 0 0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme
Uniform Fire Code Rating:	N/A

6 – Accidental Release Measures

Personal Precautions:	Keep authorized personal from entering the area. Spilled material may cause a slipping hazard.
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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.

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/Hygienic Practices: Avoid contact with eye, 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.

8 – Exposure Control/Personal Protection

Occupational Exposure Limits:

Chemical Name: Calcium Chloride				
Exposure Limits (TWAs) in Air				
CAS Number	IDLH	ACGIH TLV	OSHS PEL	STEL
10043-52-4	N/A	N/A	N/A	N/A

Respiratory Protection: N/A

Ventilation: Use local exhaust in enclosed area. Use natural ventilation for outdoor areas.

Protective Clothing: Use impervious clothing, rubber gloves, and rubber boots.



Eye Protection:	Use splash-proof safety goggles and splash shields where there is any possibility of calcium chloride contacting the eyes.
Other Protective Clothing or Equipment:	N/A
Work/Hygienic Practices:	Avoid contact with eyes, skin, and mucous membranes. Wash hands thoroughly with soap and water before eating, drinking, smoking or using toilet facilities. DO NOT place food, or drink in areas where dusting or splashing of solution is possible.

9 – Physical and Chemical Properties

Appearance: Clear to amber colored liquid	Odor: None
Odor Threshold: N/A	pH: 5
Melting Point/Freeze Point: -25 ° F	Initial Boiling Point: 225 ° F
Flash Point: Non-Flammable	Evaporation Rate: N/A
Flammability: N/A	Lower/Upper Explosive Limit: N/A
Vapor Pressure: N/A	Vapor Density: N/A
Relative Density: 10.6 Lbs/Gal	Solubility in Water: 100%
Partition Coefficient: N/A	Autoignition Temperature: Non-Flammable
Decomposition Temperature: N/A	Viscosity: N/A
% Volatiles: 73%	Specific Gravity: 1.266 @ 60 ° F
Molecular Weight: 110.99	VOC: N/A

10 – Stability and Reactivity

Reactivity:	Hygroscopic
Chemical Stability:	Stable
Possibility of Hazardous Reactions Or Polymerizations:	Hazardous polymerization will not occur
Conditions to Avoid:	N/A

Incompatible Materials: Metals will slowly corrode in aqueous solution. Keep away from galvanized iron, aluminum, and tin. Concentrated acids, Boric acid, nitric acid and calcium oxide are incompatible.

Hazardous Decomposition Products: If the 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.

11 – Toxicological Information

Acute and Chronic Effect: 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
 LD50: 1000 mg/kg, oral, rat
 Moderately toxic by ingestion, slightly toxic by dermal absorption.

Chronic Toxicity: N/A

Carcinogenicity:

Product Name: SO-CAL					
ACGIH	IARC	EPA	NIOSH	NTP	OSHA
No	No	No	No	No	No

12 – Ecological Information

Ecotoxicology: N/A

Persistence and Degradability: N/A

Bioaccumulative Potential:

Product/Ingredient	Log_{Pow}	BCF	Potential
Calcium Chloride	N/A	N/A	N/A

Mobility in Soil: N/A

13 – Disposal Consideration

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

14 – Transport Information

This product is not regulated as a hazardous material, substance or dangerous good.

15 – Regulatory Information

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

SARA 304 Extremely Hazardous Substance (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:

SARA 311/312 Hazards				
Acute	Chronic	Flammability	Pressure	Reactivity
No	No	No	No	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 Substance:

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(r) Air

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

California Prop 65 Chemicals:

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

Hazard Label Warning:

This product does not require hazard label warning.

TSCA (Toxic Substance Control Act):

All chemicals substance in this product are listed on the U.S. TSCA Inventory List.

Acronyms:

CAS # - Chemical Abstract Service Registry Number

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

16 - Other information

Revision Date: 12/29/2016

Supersedes: 10/31/2013

First Issued: 12/01/1985

Chemical Family/Type: Inorganic Salt



Section(s) Changed Since Last Revision: From MSDS to First Issue SDS Conversion

IMPORTANT! Read this SDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This SDS has been prepared accordance with the Globally Harmonized System of Chemical and Labeling of Chemicals (GHS) 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; **Custom Salt Solutions LLC** makes no warranty, either expressed or implied, with respect to 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.