

Calcium Chloride Brine 20-40% (Calcium Chloride

SAFETY DATA SHEET

1290, 1320,1355 and 1389) Date of Preparation: May 13, 2019

Section 1: IDENTIFICATION		
Product Name:	Calcium Chloride Brine 20-40% (Calcium Chloride 1290, 1320,1355 and 1389)	
Synonyms:	Calcium Chloride Brine, MagFree Calcium Chloride. Bronze, Silver Gold, Platinum, Formula 35, Formula 35 Plus, Tire Weight, Bronze 29, Platinum 38.	
Product Use:	Anti-Icing/De-icing, Dust Control, Concrete Conditioner, Tire Weighing, Other industrial uses.	
Restrictions on Use:	Not available.	
Manufacturer/Supplier:	Tiger Calcium Services 603-15 Ave Nisku, AB T9E 7M6	
Phone Number:	780-849-3114	
Emergency Phone:	Canutec: 613-996-6666	
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Section 2: HAZARD(S) IDENTIFICATION

GHS INFORMATION

Classification: Eye Irritation, Category 2A

LABEL ELEMEN Hazard Pictogram(s):	rs 	
Signal Word:	Warning	
Hazard Statements:	Causes serious eye irritation.	
Precautionary St Prevention:	atements Wash thoroughly after handling. Wear protective gloves, protective clothing and eye protection.	
Response:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
Storage:	Not applicable.	
Disposal:	Not applicable.	
	erwise Classified: Not applicable. Unknown Toxicity: None.	

This material is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR



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1910.1200).

This material is considered hazardous by the Hazardous Products Regulations.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS				
Ingredient(s)		Common name / Synonyms	CAS No.	% wt./wt.
Calcium chloride (Ca		Not available.	10043-52-4	20 - 40
Sodium chloride (Na	,	Not available.	7647-14-5	1 - 6
Magnesium chloride		Not available.	7786-30-3	0.05 - 5
Potassium chloride	. ,	Not available.	7447-40-7	1 - 3
	Section	n 4: FIRST-AID MEASURES		
Inhalation:	If inhaled: Call a	poison center or doctor if y	/ou feel unwell.	
	Signs/symptoms	d symptoms and effects: M may include cough, sneez eness, and nose and throa	ing, nasal dischar	•
Eye Contact:	If in eyes: Rinse cautiously with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.			
		d symptoms and effects: C may include redness, swe		
Skin Contact:	lf on skin: Wash feel unwell.	with plenty of water. Call a	poison center or o	loctor if you
	•	d symptoms and effects: M may include localized red		
Ingestion:	occurs naturally, Do NOT induce	II a poison center or doctor have victim lean forward to /omiting unless directed to ing by mouth to an uncons	o reduce the risk o do so by medical	f aspiration.
	irritation. Signs/s nausea, vomiting absorbed, abdon symptoms. Howe reasons, CNS de	d symptoms and effects: Nymptoms may include abd and diarrhea. Since Magr ninal pain, vomiting and dia ever, if elimination is blocke pression, lack of reflexes blood) may occur.	ominal pain, stoma nesium salts are sl arrhea may be the ed by bowel blocka	ach upset, owly only age or other
General Advice:	In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).		immediately	
Note to Physicians:	chloride may cau ingestion, IV adn effects of acute N	not appear immediately. O use serum acidosis. In case ninistration of Calcium gluc Magnesium toxicity. Ventric and Mannitol forced diures	e of Magnesium ch conate will partially cular support with (lloride reverse the Calcium



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Section 5: FIRE-FIGHTING MEASURES

FLAMMABILITY AND EXPLOSION INFORMATION

Not flammable or combustible by OSHA/WHMIS criteria.

Sensitivity to Mechanical Imp Sensitivity to Static Discharge			
MEANS OF EXTINCTION Suitable Extinguishing Media:	Small Fire: Dry chemical, CO2, water spray or regular foam.		
	Large Fire: Water spray, fog or regular foam. Move containers from fire area if you can do it without risk.		
Unsuitable Extinguishing Mec	lia: Not available.		
Products of Combustion:	Sodium oxide. Hydrogen chloride. Hydrochloric acid. Oxychlorides. Chlorine. Potassium oxide. Hydrogen chloride.		
Protection of Firefighters:	Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may cause pollution. Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.		
Section 6: ACCIDENTAL RELEASE MEASURES			
Emergency Procedures:	Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).		
Personal Precautions:	Do not touch or walk through spilled material. Use personal protection recommended in Section 8.		
Environmental Precautions:	Keep out of drains, sewers, ditches, and waterways.		
Methods for Containment:	Stop leak if without risk. Do not flush to sewer or allow to enter waterways.		
Methods for Clean-Up:	Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.		
Other Information:	See Section 13 for disposal considerations.		

Handling:

Do not swallow. Wash thoroughly after handling. See Section 8 for information on Personal Protective Equipment.

Storage:

Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.



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Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines Component

Calcium chloride [CAS No. 10043-52-4] ACGIH: No TLV established. OSHA: No PEL established.

Sodium chloride [CAS No. 7647-14-5] ACGIH: No TLV established. OSHA: No PEL established.

Magnesium chloride [CAS No. 7786-30-3] ACGIH: No TLV established. OSHA: No PEL established.

Potassium chloride [CAS No. 7447-40-7] ACGIH: No TLV established. OSHA: No PEL established.

PEL: Permissible Exposure Limit **TLV:** Threshold Limit Value

Engineering Controls:

Not normally required.

PERSONAL PROTECTIVE EQUIPMENT (PPE)



Eye/Face Protection:	Wear chemical safety goggles. Ensure that eyewash stations are close to the workstation location. Use equipment for eye protection that meets the standards referenced by CSA Standard CAN/CSA-Z94.3-92 and OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.
Hand Protection:	Wear protective gloves. Consult manufacturer specifications for further information.
Skin and Body Protection:	Wear protective clothing.
Respiratory Protection:	Not required under normal use conditions.
General Hygiene Considerations:	Handle according to established industrial hygiene and safety practices. Consult a competent industrial hygienist to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES		
Appearance:	Clear to slightly turbid liquid.	
Colour:	Colourless to lightly brown.	
Odour:	Odourless.	



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Odour Threshold:	Not available.	
Physical State:	Liquid.	
pH:	2.5 to 8.5	
Melting Point / Freezing Point:	Not available.	
Initial Boiling Point:	120 °C (248 °F)	
Boiling Range:	120 to 140 °C (248 to 284 °F)	
Flash Point:	Not available.	
Evaporation Rate:	Not available.	
Flammability (solid, gas):	Not applicable.	
Lower Flammability Limit:	Not available.	
Upper Flammability Limit:	Not available.	
Vapor Pressure:	7 to 15 mmHg at 25 °C (77 °F)	
Vapor Density:	Not available.	
Relative Density:	1.27 to 1.39 (Water = 1) at 25 °C (77 °F)	
Solubilities:	Completely miscible in water.	
Partition Coefficient: n- Octanol/Water:	Not available.	
Auto-ignition Temperature:	Not available.	
Decomposition Temperature:	Not available.	
Viscosity:	Not available.	
Percent Volatile, wt. %:	Not available.	
VOC content, wt. %:	Not available.	
Density:	Not available.	
Coefficient of Water/Oil Distribution:	Not available.	
	Section 10: STABILITY AND REACTIVITY	
Reactivity:	Contact with incompatible materials. Exposure to heat.	
Chemical Stability:	Stable under normal storage conditions.	
Possibility of Hazardous Reactions:	Calcium chloride may form hydrogen chloride in presence of sulphuric or phosphoric acids.	
Conditions to Avoid:	Contact with incompatible materials. Exposure to heat.	
Incompatible Materials:	Strong acids. Strong oxidizers.	
Hazardous Decomposition	Products: Not available.	



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Section 11: TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE

Product Toxicity

Inhalation: Not available.

Component Toxicity

Component	CAS No.	LD ₅ oral	LD ₅₀ dermal	L C ₅₀
Calcium chloride	10043-52-4	1000 mg/kg (rat)	Not available.	Not available.
Sodium chloride	7647-14-5	3000 mg/kg (rat)	> 10000 mg/kg (rabbit)	> 42000 mg/m³ (rat); 1H
Magnesium chloride	7786-30-3	2800 mg/kg (rat)	Not available.	Not available.
Potassium chloride	7447-40-7	2600 mg/kg (rat)	Not available.	Not available.

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion. Skin absorption.

 Target Organs:
 Skin. Eyes. Gastrointestinal tract. Respiratory system.

Symptoms (including delayed and immediate effects)

- **Inhalation:** May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.
- **Eye:** Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
- **Skin:** May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.
- **Ingestion:** May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. Since Magnesium salts are slowly absorbed, abdominal pain, vomiting and diarrhea may be the only symptoms. However, if elimination is blocked by bowel blockage or other reasons, CNS depression, lack of reflexes and hypocalcemia (deficiency of calcium in the blood) may occur.

Skin Sensitization:	Not available.
Respiratory Sensitization:	Not available.
Medical Conditions Aggravated By Exposure:	Not available.

EFFECTS OF CHRONIC EXPOSURE (from short and long-term exposure)

Target Organs:	Skin. Eyes. Gastrointestinal tract. Respiratory system.
Chronic Effects:	Prolonged or repeated contact may dry skin and cause irritation.
Carcinogenicity:	This product does not contain any carcinogens or potential carcinogens above reportable thresholds as listed by ACGIH, IARC, OSHA, or NTP.
Mutagenicity:	Not available.



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Reproductive Effects: Not available.

Developmental Effects Teratogenicity: Not available.

Embryotoxicity: Not available.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION			
Ecotoxicity:	Not available.		
Persistence / Degradabil	lity: Not available.		
Bioaccumulation / Accur	mulation: Not available.		
Mobility in Environment:	Not available.		
Other Adverse Effects:	Not available.		
Section 13: DISPOSAL CONSIDERATIONS			
Disposal Instructions:	Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.		
Section 14: TRANSPORT INFORMATION			
U.S. Department of Transportation (DOT) Proper Shipping Name: Not regulated.			
Class:	Not applicable.		
UN Number:	Not applicable.		
Packing Group:	Not applicable.		
Label Code:	Not applicable.		
Canada Transportation of Dangerous Goods (TDG) Proper Shipping Name: Not regulated.			
Class:	Not applicable.		
UN Number:	Not applicable.		

Packing Group: Label Code:

Section 15: REGULATORY INFORMATION

Not applicable.

Not applicable.

Chemical Inventories

US (TSCA)

The components of this product are in compliance with the chemical notification requirements of TSCA.

Canada (DSL)

The components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.



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Federal Regulations

United States

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA Title III

No components are listed.

State Regulations

Massachusetts

US Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

No components are listed.

New Jersey

US New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

No components are listed.

Pennsylvania

US Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

No components are listed.

California

California Prop 65: This product does not contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Section 16: OTHER INFORMATION

Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for their own particular use.

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Version:	1.0
GHS SDS Prepared by:	Deerfoot Consulting Inc.
	Phone: (403) 720-3700