

Material Safety Data Sheet

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

U.S. Department of Labor

Occupational Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072

IDENTITY (As Used on Label and List) Natural Mineral Well Brine (Non-hazardous material)	Natural Calcium Chloride Based Product
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Section I

Manufacturer's Name Chloride Solutions, LLC	Emergency Telephone Number 517-521-2124
Address (Number, Street, City, State, Zip)	Telephone Number for Information 517-521-2124
672 North M-52	Date Prepared 11/2013
Webberville, MI 48892	

Section II - Hazard Ingredients / Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits	% (optional)
Natural Mineral Well Brine (Non-hazardous material)				
Specific Gravity 1.2670				
Temperature 60°F / 15.6°C				
Calcium Chloride				18.4%
Magnesium as Chloride				3.95%
Potassium Chloride				1.54%
Sodium as Chloride				4.29%
Freezing Point -42.7°F / -41.5°C				

Section III - Physical / Chemical Characteristics

Boiling Point	ND	Specific Gravity (H ₂ O = 1)	1.2670
Vapor Pressure (mm Hg.)	ND	Melting Point	NA
Vapor Density (AIR = 1)	ND	Evaporation Rate (Butyl Acetate = 1)	ND
Solubility in Water	Water soluble		
Appearance and Odor	Clear to tan in color, mild odor		

Section IV - Fire and Explosion Hazard Data

Flash Point (method used)	None	Flammable Limits	Unknown	LEL	UEL
Extinguishing Media	Non-Flammables				
Special Fire Fighting Procedures	None				
Unusual Fire and Explosion Hazards	None				

Section V - Reactivity Data

Stability	Unstable	ND	Conditions to Avoid
	Stable	ND	None
Incompatibility (Materials to Avoid) None Known			
Hazardous Decomposition or Byproducts None Known			
Hazardous Polymerization	Will Occur		Conditions to Avoid
	Will Not Occur	XX	None

Section VI - Health Hazard Data

Route(s) of Entry	Inhalation? No	Skin? Yes	Ingestion? No
Health Hazards (Acute and Chronic) None Known			
Carcinogenicity	NTP? No	IARC Monographs? No	OSHA Regulated? No
Signs and Symptoms of Exposure Skin irritations, possible rash.			
Medical Conditions Generally Aggravated by Exposure None Known			
Emergency and First Aid Procedures Skin: Wash area thoroughly with water. Remove saturated clothing. Eyes: Flush with cold water Ingestion: Drink small amount of water, if symptoms or discomfort persist, get medical care			

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled Flush (wash) area with water. Area may remain wet and slippery if not flushed thoroughly
Waste Disposal Method Dispose of according to Local, State and Federal regulations
Precautions to Be Taken for Handling and Storing Store in closed container
Other Precautions Material is corrosive to metals over time. Can be slippery on some surfaces

Section VIII - Control Measures

Respiratory Protection (Specify Type) None		
Ventilation	Local Exhaust Use in ventilated area	Special None
	Mechanical (General) Corrosive to some metals	Other None
Protective Gloves Neoprene recommended	Eye Protection Safety glasses if desired	
Other Protective Clothing or Equipment Leather gloves and Boots NOT Recommended		
Work / Hygienic Practices Normal		