

RDS38 Road Dust Stabilizer

1. PRODUCT AND COMPANY IDENTIFICATION

Zircon Industries, Inc. 4920 Commerce Pkwy Cleveland OH 44128	INFOTRAC (24-Hr Emergency Response):	800-535-5053
	Non-emergency Customer Service:	(216) 595-0200
Synonyms:	Liquid Calcium Chloride	
Chemical Family:	Inorganic Salt	
MSDS Creation Date:	03/01/1994	
SDS Revision Date:	11/04/2013	

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:	<p>Odorless, clear to amber liquid.</p> <p>WARNING: May cause irritation to skin, eyes and respiratory tract. Harmful if swallowed or inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing mist. Use good personal hygiene and housekeeping.</p>
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3. COMPOSITION, INFORMATION ON INGREDIENTS

CAS Number	Wt. %	Ingredient Name
10043-52-4	20-45%	Calcium Chloride

4. FIRST AID MEASURES

Skin Contact:	Remove contaminated clothing and shoes. Wash affected area with soap or mild detergent.
Eye Contact:	Flush eyes promptly with water, continuing for at least 15 minutes. If irritation or adverse symptoms develop, seek medical attention.
Inhalation:	Remove from exposure. If breathing is difficult or irritation develops, seek medical attention.
Ingestion:	Get medical attention. Do not induce vomiting unless directed to do so by a physician.
Notes to Physician:	Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flash Point:	N/A
Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.
Fire Fighting:	Negligible fire hazard; not applicable.
Fire and Explosion Hazard:	Negligible
Products of Combustion:	Non-combustible

6. ACCIDENTAL RELEASE MEASURES

Evacuation and Safety:	Wear appropriate protective gear for the situation. See personal protection information in Section 8. Isolate area. Keep authorized personnel from entering the area. Use appropriate safety equipment.
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N.E. = Not Established
N/A = Not Applicable

Containment / Clean Up of Spill:	Dike the spilled liquid, and either pump back into original container or cover with sand or clay-type substance for absorption. Spilled material may cause a slipping hazard.
7. HANDLING AND STORAGE	
Handling:	Avoid skin and eye contact and breathing vapors or mists. Wash thoroughly after handling. Launder contaminated clothing before reuse.
Storage:	Observe all federal, state, and local regulations when storing this product. Store in a tightly closed container away from incompatible materials. Do not store in metals which this solution corrodes.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Engineering Controls:	Provide local exhaust ventilation system. Where there is possibility of exposure, eye wash fountain and safety shower should be provided within the immediate work area for emergency use.
Exposure Limits: ACGIH – (TLV-TWA) Guideline for nuisance particulate (liquefied mist): 10 mg/m ³	
Personal Protective Equipment (PPE)	
Eyes:	Wear safety glasses with splash shields or safety goggles/shields.
Hands and Feet:	Wear appropriate non-leather protective gloves and boots.
Body:	Wear appropriate normal work clothing. Leather work boots and/or leather products will dehydrate with resultant shrinkage and possible destruction.
Respiratory:	Respirator not generally required. For misty conditions, wear NIOSH approved mist respirator.
9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance:	Clear to amber liquid
Odor:	Odorless
Odor Threshold:	N.E.
pH:	3.8 – 9.0
Melting Point / Freezing Point:	N.E.
Boiling Point:	118°C (244°F) for 38% solution
Flash Point:	N/A
Upper/Lower Flammability Limits:	N/A
Evaporation Rate:	N.E.
Vapor Pressure:	N.E.
Vapor Density (Air=1):	N.E.
Specific Gravity (H ₂ O=1):	1.376 @ 25°C (77°F) for 38% solution
Water Solubility:	Complete
Partition Coefficient:	N.E.
Freezing Point:	N.E.
Auto-Ignition Temperature:	N/A
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Decomposition Temperature:	N.E.
Viscosity:	N.E.

10. STABILITY AND REACTIVITY

Stability and Reactivity:	Stable under normal temperatures and pressures.
Incompatibilities:	Strong oxidizing agents.
Hazardous Decomposition:	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.
Polymerization:	Does not occur under normal temperatures and pressures.
Conditions to Avoid:	None.

11. TOXICOLOGICAL INFORMATION

Toxicity Data:	Anhydrous Calcium Chloride: TD _{LO} : 112/kg, oral, 20 weeks, rat LD _{LO} : 274 mg/kg, subcutaneous, dog LD ₅₀ : 1000 mg/kg, oral, rat LD ₅₀ : 264 mg/kg, intraperitoneal, rat Moderately toxic by ingestion. Slightly toxic by dermal absorption.
Primary Routes of Exposure:	Inhalation. Skin and/or eye contact. Ingestion.
Potential Acute Health Effects	
Skin Contact:	May cause skin irritation.
Eye Contact:	May irritate or burn eyes.
Inhalation:	Mist inhalation may irritate nose, throat, and lungs. May cause nosebleeds.
Ingestion:	May irritate gastrointestinal tract and cause nausea and vomiting.
Carcinogen Status:	OSHA – No NTP – No IARC – No

12. ECOLOGICAL INFORMATION

Product will not biodegrade or bioaccumulate.

13. DISPOSAL INFORMATION

Observe all federal, state, and local regulations when disposing of this substance.

14. DEPARTMENT OF TRANSPORTATION (DOT) TRANSPORT INFORMATION

UN Identification Number:	Not DOT Regulated
UN Proper Shipping Name:	N/A
Hazard Class or Division:	N/A
Packing Group:	N/A
Marine Pollutant:	N/A
Emergency Response Guide #:	N/A

15. REGULATORY INFORMATION

SARA Title III:

Section 302/304 This product does not contain ingredients listed as an Extremely Hazardous Substance.

Section 311/312	Immediate (Acute) Health Hazard:	YES
	Delayed (Chronic) Health Hazard:	No
	Fire Hazard:	No
	Reactive Hazard:	No
	Sudden Release of Pressure Hazard:	No

Section 313 This product does not contain ingredients (at a level of 1% or greater) on the List of Toxic Chemicals.

OTHER REGULATORY INFORMATION

TSCA Status: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

California Proposition 65 This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition.

16. OTHER INFORMATION

HMIS Ratings: (Scale 0-4) Health: 1 Fire: 0 Reactivity: 0

Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.

This information relates to the specific product designated and may not be valid for such product used in combination with any other materials or in any other processes. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the users' responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

TETRA Technologies, Inc. reserves the right to refuse shipment of this product to any consumer who fails to demonstrate the ability to consistently handle and use it safely and in compliance with all applicable laws, rules and regulations. Such demonstration may require on-site inspection of any or all storage, processing, packaging and other handling systems that come in contact with it.

Customers are responsible for compliance with local, state and federal regulations that may be pertinent in the storage, application and disposal of this product.

ISSUE DATE: 03/01/1994

PREPARED BY: Zircon Industries, Inc. Corporate Health, Safety & Environment

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Revision History:

12/20/2007
04/12/2010
11/04/2010
11/04/2013

Updated address
Section(s) – 1, 2, 4, 6, 9, 10, 14, 15
Updated header, moved Primary Routes of Exposure and Potential Acute Health Effects from Section 2 to Section 11, moved HMIS to Section 16