



# SAFETY DATA SHEET

## RDS 38 ROAD DUST STABILIZER

Conforms to GHS Version 7.0 2026 HazCom Revisions

Print Date: 26-Mar-2026

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Version 4

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier**

**Product Name** RDS 38 Road Dust Stabilizer

**Other means of identification**

**Synonyms** Liquid Calcium Chloride, Food Grade Calcium Chloride, Road Master, Superset

**Recommended use of the chemical and restrictions on use**

**Uses advised against** No information available

**Details of the supplier of the safety data sheet**

**Supplier Address**

Zircon Industries Incorporated  
PO Box 24208  
Cleveland, OH 44124-9998  
216-595-0200

**E-mail address**

staff@liquidheat.com

**Emergency telephone number**

**Emergency Telephone** InfoTrac 1-800-535-5053

### 2. HAZARDS IDENTIFICATION

**Classification**

**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious Eye Damage
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Category 2
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**Label elements**

**Emergency Overview**

**WARNING**



**Hazard statements**

H318: Causes Eye Damage/Irritation

**Precautionary Statements - Prevention**

P264 – Wash hands thoroughly after handling

P280 – Wear protective gloves

**Precautionary Statements - Response**

P308+P316: IF EXPOSED or concerned: Get medical advice/attention

P305+P354+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P302+P352: IF ON SKIN: Wash with plenty of soap and water

P332+P317: If skin irritation or rash occurs: Get medical advice/attention

P301+P316: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

P302 + P352 – IF ON SKIN: Wash with plenty of water P332 + P313 – If skin irritation occurs: Get medical advice/attention

P362 + P364 – Take off contaminated clothing and wash before reuse

**Precautionary Statements - Storage**

P403: Store in well-ventilated area

**Precautionary Statements - Disposal**

P501: Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not Applicable

Unknown Acute Toxicity

0% of the substance or mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name	CAS No.	Weight-%	Trade Secret
Calcium Chloride	10043-52-4	30-60	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

**4. FIRST AID MEASURES****First aid measures****General advice**

Immediate medical attention is required.

**Eye contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately.

**Skin Contact**

Wash off immediately with soap and plenty of water.

**Inhalation**

Move to fresh air. Call a physician if symptoms develop or persist.

**Ingestion**

Rinse mouth. Get medical attention if symptoms occur.

**Self-protection of the first aider**

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

**Most important symptoms and effects, both acute and delayed****Symptoms**

No information available.

**Indication of any immediate medical attention and special treatment needed****Note to physicians**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

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Dry chemical, CO2 or water spray.

**Unsuitable extinguishing media** Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards arising from the chemical**

During fire, gases hazardous to health may be formed.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

**Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up** Cover liquid spill with sand, earth or other non-combustible absorbent material.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.  
**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

**Incompatible materials** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium Chloride 10043-52-4	TWA: 5.0 mg/m <sup>3</sup> inhalable fraction and vapor	TWA: 5.0 mg/m <sup>3</sup> inhalable fraction and vapor	No Information Available

NIOSH IDLH *Immediately Dangerous to Life or Health*

### Appropriate engineering controls

**Engineering Controls**                      Showers  
    Eyewash stations  
    Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection**                      Safety Glasses with Side Shields.

**Skin and body protection**                Wear protective gloves and protective clothing.

**Respiratory protection**                    If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations**        When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	liquid	<b>Odor threshold</b>	No information available
<b>Appearance</b>	clear	<b>Odor</b>	mild
<b>Color</b>	colorless		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	3.8	
<b>Melting point/freezing point</b>		No information available
<b>Boiling point / boiling range</b>	118 ° C / 244 ° F	
<b>Flash point</b>		No information available
<b>Evaporation rate</b>		No information available
<b>Flammability (solid, gas)</b>		No information available
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit:</b>		No information available
<b>Lower flammability limit:</b>		No information available
<b>Vapor pressure</b>		No information available
<b>Vapor density</b>		
<b>Water solubility</b>	Miscible in water	
<b>Solubility in other solvents</b>		No information available
<b>Partition coefficient</b>		No information available
<b>Autoignition temperature</b>		No information available

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Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available
<b><u>Other Information</u></b>	
Explosion severity	
Danger of Explosion, cloud	No information available
Minimum Ignition Energy, Cloud, mJ	No information available
KST, (cloud), bar.m.s-1	No information available
Pmax maximum explosion pressure, Cloud, bar	No information available
VMP, (cloud), bar.s-1	No information available
LOC Limiting Oxygen Concentration, Cloud, %v/v O2	No information available
Softening point	No information available
Molecular weight	No information available
Density	No information available
Bulk density	No information available
Specific Gravity	1.376@ 25C for 40% Solution

## 10. STABILITY AND REACTIVITY

### Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

### Chemical Stability

Material is stable under normal conditions.

### Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

### Conditions to avoid

Contact with incompatible materials.

### Incompatible materials

Strong oxidizing agents.

### Hazardous decomposition products

No hazardous decomposition products are known.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Product Information</b>	Causes serious eye damage.	
<b>LD 50 Calcium Chloride</b>	Rat (oral) + (dermal)	1000mg/kg
<b>Inhalation</b>	Not a respiratory sensitizer.	
<b>Eye contact</b>	Causes serious eye damage.	
<b>Skin Contact</b>	Mild – 24 Hours (Rabbit).	
<b>Ingestion</b>	Mild – 24 Hours (Rabbit).	

### Information on toxicological effects

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Sensitization

**Germ cell mutagenicity** .

**Carcinogenicity** No information or data specific to the product on this toxicological (health) effect is available.

**Reproductive toxicity** .

**STOT - single exposure** No information or data specific to the product on this toxicological (health) effect is available.

**STOT - repeated exposure** No information or data specific to the product on this toxicological (health) effect is available.

**Target Organ Effects** Central nervous system, Eyes.

**Aspiration hazard** No information or data specific to the product on this toxicological (health) effect is available.

### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical Name	Fish
Calcium Chloride 10043-52-4	Fathead minnow (Pimephales promelas) 3930 - 5360 mg/l, 96 hours

### Persistence and degradability

No information available.

### Bioaccumulation

No information available.

### Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Do not reuse container.

## 14. TRANSPORT INFORMATION

**DOT** Not regulated as a dangerous good

**IATA** Not regulated as a dangerous good

**IMDG** Not regulated as a dangerous good

## 15. REGULATORY INFORMATION

### International Inventories

<b>AICS</b>	Yes
<b>DSL</b>	Yes
<b>NDSL</b>	No
<b>IECSC</b>	Yes
<b>EINECS</b>	Yes
<b>ELINCS</b>	No
<b>ENCS</b>	Yes
<b>KECL</b>	Yes
<b>PICCS</b>	Yes
<b>TSCA</b>	Yes (Registered Lautenberg 21st act)
<b>NZIoC</b>	Yes

### Legend:

**AICS** - Australian Inventory of Chemical Substances

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**IECSC** - China Inventory of Existing Chemical Substances

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**NZIoC** - New Zealand Inventory of Chemicals

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
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#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### CERCLA

This material, as supplied, contains no substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### SARA 311/312 Hazardous

#### Classified hazard categories

Yes  
Eye Damage or Irritation

### 16. OTHER INFORMATION

<b>NFPA</b>	Health hazards 1	Flammability 0	Instability 0	Physical and Chemical Properties -
<b>HMIS</b>	Health hazards 1*	Flammability 0	Physical hazards 0	Personal protection X

Revision Date 26-Mar-2026

Revision Note

[SDS sections updated \(\\*\\*\\*\) GHS 7.0 2026](#)

#### Disclaimer

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**End of Safety Data Sheet**