

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY INFORMATION

Product Identification

- Trade Name: **RUSSTECH RCI**
- Product Use: Non-Chloride Corrosion Inhibiting and Accelerating Concrete Admixture
- Restrictions on Use: Intended for industrial and professional users
- CAS#: 13780-06-8

Company Information

- RussTech, Inc.
11208 Decimal Drive
Louisville, KY 40299
502-267-7700
- Prepared by Department of Environmental, Health and Safety

Emergency number – (served 24 hours)

- CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

Classification of substance or mixture:

Eye Irritation	Category 1	Serious Eye Damage
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Label elements: This material requires a hazard warning label in accordance with GHS criteria



Pictogram:

Signal Word: **DANGER**

Hazard statement(s): H318: Causes serious eye damage

Precautionary statement(s):

P280: Wear eye/face protection.

P305+P351+P338: IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call doctor/physician

Hazards not otherwise classified: Not applicable

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3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Per 2012 OSHA Hazard Communication Standard 29 CFR 1910.1200

Components:		
Chemical Name:	CAS#:	Content
Calcium Nitrate	10124-37-5	<2%
Calcium Nitrite	13780-06-8	30 – 32%

4. FIRST AID MEASURES

Inhalation: Move person away from exposure. If having difficulty breathing, administer oxygen. If breathing has stopped, administer artificial respiration, and seek medical attention.

Eyes: Flush eyes with water lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.

Skin: Remove contaminated clothing. Wash affected area thoroughly with soap and water. If irritation persists, seek medical attention.

Ingestion: Contact physician or Poison Control Center (PCC) immediately. Do NOT induce vomiting unless instructed to do by physician or PCC.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media: water jet

Specific hazards in case of fire: carbon dioxide, carbon monoxide, harmful vapors, nitrogen oxides, fumes/smoke, carbon black

Special protective equipment required for firefighting: wear self- contained breathing apparatus (SCBA)

Additional information for firefighters: Keep containers cool with water spray, do not allow runoff into the environment or sewer systems.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

- Wear appropriate PPE as needed
- Keep unprotected persons away

Environmental precautions:

- Prevent material from entering drains, septic systems, water sources, etc. using dikes, absorbent materials, and booms.

Material containment and clean up:

- Contain material with dikes. Vacuum up spilled material or use absorbent media. Remove spilled material to storage for proper disposal. Dispose of in accordance with local, state, and federal regulations.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid vapors and spray. Avoid contact with eyes, skin, and clothing. No additional special handling required if product is used correctly

Information about protection against explosions and fires: Dried material will become an oxidizer which may provide oxygen to combustible materials.

Information about safe storage: Keep containers tightly closed. Store in a cool dry area away from heat or ignition sources. Protect from temperatures less than 32°F/ 0°C. Do not allow material to dry.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

Additional information about exposure controls: No further data; see section 7

Components with limit values that require monitoring at the workplace: None

PPE (personal protective equipment) and hygienic measures:

- Wear ANSI approved safety glasses or goggles to protect eyes
- Wear latex or rubber gloves to protect skin
- Wash hands thoroughly before breaks and at end of workday

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information:

- Physical state: Liquid
- Color: Clear to light yellow
- Odor: Slightly sweet
- Odor Threshold: Not available

Physical properties:

- pH value (@70°F): 9.50 – 11.50
- Specific gravity (@70°F): 1.240 – 1.280
- Bulk density: ~1.29 g/cm³
- Boiling point: 226°F / 108°C
- Freezing point/Melting point: 32°F / 0°C
- Decomposition temperature: Not available
- Vapor pressure: Not available
- Vapor density: 1.0
- Evaporation rate: Not available
- VOC (w/w): 0%
- Solubility in / Miscibility with water: 100%
- Partition Coefficient (n-octanol/water): Not available
- Auto ignition: Material is not self-igniting
- Flash point: > 200°F / 93°C
- Lower / Upper Flammability Limits: Not applicable
- Viscosity: Not available
- Danger of explosion: material does not present an explosion hazard

10. STABILITY AND REACTIVITY

Material stability: Material is stable and not sensitive to mechanical impact

Possibility of hazardous reactions: Contacts with acids liberates toxic nitrogen dioxide gas

Incompatible materials to avoid: Strong acids, ammonium salts, ammonium compound, reducing agents, organic substances

Hazardous decomposition products: None expected during normal storage, handling, and use

Conditions to avoid: Do not allow material to dry

11. TOXICOLOGICAL INFORMATION

Routes for exposure for solids and liquids are ingestion and inhalation but may include eye and skin contact.

Acute toxicity: This product has not been tested for toxicity. Data derived from individual components.

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- Dermal: no data available
- Inhalation: no data available
- Ingestion: no data available
- Irritation/corrosion causes serious eye damage

Chronic toxicity: This product has not been tested for toxicity. Based on the properties of the individual components, the classification criteria are not met.

- Repeated dose: based on available data, the classification criteria are not met
- Genetic: based on available data, the classification criteria are not met
- Carcinogenicity: based on available data, the classification criteria are not met
- Reproductive: based on available data, the classification criteria are not met
- Teratogenicity: based on available data, the classification criteria are not met

Most important symptoms and effects; acute and delayed: Product may be damaging or corrosive to the eyes. Symptoms include pain, redness, stinging, tearing, irritation, inability to keep the eye open, sensation of something in the eye, swelling of eye lids and blurred vision.

12. ECOLOGICAL INFORMATION

Based on available data, potential for environmental toxicity is low; however, discharge to the environment should be avoided.

Ecotoxicity: product is unlikely acutely harmful to aquatic life

Persistence and degradability: product expected to degrade in one month or less

Bioaccumulative potential: there is no evidence to suggest bioaccumulation will occur

Mobility in soil: accidental spillage may lead to penetration in the soil and groundwater, however; there is no evidence that this would cause adverse ecological effects

13. DISPOSAL CONSIDERATIONS

In its manufactured form this material or its residues are not considered a hazardous waste. Dispose of in accordance with local, state, and federal regulations. Surplus or contaminated product should be disposed of by a licensed disposal facility. Do not discharge product or residues into sewers, drains, surface waters or ground waters. Packaging should be emptied as much as possible and thoroughly cleaned before being reused or recycled.

14. TRANSPORT INFORMATION

Material is not regulated for transport

15. REGULATORY INFORMATION

- Sara 302 (extremely hazardous materials): not applicable
- Sara 311/312: Acute health hazard
- Sara 313: 1.0% de minimis concentration (reportable only when in aqueous solution), chemical category N511 – related to Nitrate Compounds, water dissociable
- TSCA: All components are listed or exempt
- California Prop. 65: This product does not contain any chemicals known to the state of California to cause cancer, birth, or any other reproductive defects.

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16. OTHER INFORMATION

This information is based on our current knowledge and is furnished without warranty, representation, or license of any kind, except that this information is accurate to the best of RussTech's knowledge or is obtained from sources believed by RussTech to be accurate. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use thereof. RussTech assumes no responsibility for injuries proximately caused by use of the Material if reasonable safety procedures are not followed as stipulated in this Data Sheet. Additionally, RussTech assumes no responsibility for injuries caused by abnormal use of the Material even if reasonable safety procedures are followed. Buyer assumes the risk in its use of the Material.