1. Chemical Product and Company Information

**Product Name:** Freezban NC

**Product Description:** A set accelerating/water reducing liquid admixture for concrete and mortar formulated without calcium chloride.

**ChemMasters**
300 Edwards Street
Madison, Ohio 44057
440-428-2105

**In Case of Emergency Contact:**
CHEMTREC 800/424-9300

2. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>CAS #</th>
<th>Exposure Limits</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium (II) Nitrate Tetrahydrate</td>
<td>13477-34-4</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

3. Hazards Identification

**CAUTION**

**May Cause Eye and Skin Irritation**

**Potential Health Hazards - Acute**

**Eye:** May cause irritation.

**Skin:** May cause irritation.

**Inhalation:** Not applicable.

**Ingestion:** May cause gastrointestinal irritation. Large amounts can result in dizziness, abdominal cramps, vomiting, bloody diarrhea, convulsions, or death.

**Potential Health Effects - Chronic:**
Small, repeat oral doses can cause weakness, depression, headaches, and mental impairment.

**Carcinogenicity:**

<table>
<thead>
<tr>
<th>NTP</th>
<th>IARC Monographs</th>
<th>OSHA Regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO</td>
<td>NO</td>
<td>NO</td>
</tr>
</tbody>
</table>

4. First Aid Measures

**Eye:** Immediately flush with plenty of water.

**Skin:** Flush with plenty of water. Remove contaminated clothing.

**Ingestion:** Seek medical attention! Give victim a large amount of water and induce vomiting. Never give anything by mouth to an unconscious person.

SEEK MEDICAL ATTENTION IF SYMPTOMS PERSIST.
5. Fire Fighting Measures
Flash Point (method used): Not applicable
Flammable Limits (% volume in air): Lower = Not applicable   Upper =Not applicable
Auto Ignition Temperature: Not applicable
Extinguishing Media: Media appropriate for surrounding materials.
Hazard Combustion Products: When heated to decomposition, this product will emit toxic fumes containing nitrogen oxide compounds.
Fire Fighting Instructions: Do not enter confined fire space without full bunker gear including a positive pressure, NIOSH approved, self-contained breathing apparatus.

6. Accidental Release Measures
Spill: Absorb with inert material, then place in chemical waste container for later disposal. Flush area with plenty of water.

7. Handling and Storage
Storage: Store material in its original container. Keep containers tightly closed when not in use.

8. Exposure Controls / Personal Protection
Exposure Controls: Not applicable
Personal Protection: Protective clothing, goggles and rubber gloves. A source of clean water should be available in work area for flushing eyes and skin.

9. Physical and Chemical Properties
Appearance: Yellow liquid
Odor: None
Boiling Point: No data available
Melting Point: Not applicable
Vapor Pressure (mm/Hg): No data available
Vapor Density (Air = 1): No data available
Solubility in Water: 100%
Specific Gravity (H2O = 1): 1.44-1.48
Evaporation Rate (n-Butyl Acetate = 1): No data available

10. Stability and Reactivity
Chemical Stability: Stable
Conditions to Avoid: Extreme heat may cause product to decompose, producing toxic fumes of nitrogen oxide.
Incompatibility (materials to avoid): Strong reducing agents and strong acids. Also incompatible with water reactive materials.
Hazardous Decomposition or By-products: Nitrogen oxide
Hazardous Polymerization: Will not occur

11. Toxicological Information
Components | Oral LD50 (rat) | Dermal LD50 (rabbit) | Inhalation LC50 (rat)
--- | --- | --- | ---
No data available | — | — | —
12. Ecological Information
No exact data available.

13. Disposal Considerations
Dispose of in accordance with all federal, state, and local regulations. If uncertain of local regulations, contact the proper environmental authorities for disposal.
This material does not meet RCRA’s characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

14. Transportation Information
For US National Shipments:
Shipping Description: Not Applicable
Emergency Response Guide Number: Not Applicable
Hazard Class: Not Applicable

15. Regulatory Information
OSHA: This material is hazardous by definition of Hazardous Communication Standard (29 CFR 1910.1200)
CERCLA Reportable Quantity: Not applicable
SARA Title III:
Section 311/312 hazard categories: acute health
Section 313 reportable ingredients:
Components | CAS # | Maximum %
Not applicable | — |

16. Other Information
MSDS Status: Revised entire
Industrial Abbreviation Legend on page 4 of this MSDS.
Industrial Abbreviation Legend

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td>CAA</td>
<td>Clean Air Act (EPA)</td>
</tr>
<tr>
<td>CERCLA</td>
<td>Comprehensive Environmental Response, Compensation &amp; Liability Act of 1980 (Superfund) (EPA)</td>
</tr>
<tr>
<td>CNS</td>
<td>Central Nervous System</td>
</tr>
<tr>
<td>CWA</td>
<td>Clean Water Act (EPA)</td>
</tr>
<tr>
<td>DOT</td>
<td>Department of Transportation</td>
</tr>
<tr>
<td>EPA</td>
<td>Environmental Protection Agency</td>
</tr>
<tr>
<td>g/kg</td>
<td>grams per kilogram</td>
</tr>
<tr>
<td>IARC</td>
<td>Internal Agency for Research on Cancer</td>
</tr>
<tr>
<td>LC50</td>
<td>Lethal Concentration in which 50% of the test animals are expected to die</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal Dose in which 50% of the test animals are expected to die</td>
</tr>
<tr>
<td>mg/m³</td>
<td>milligrams per cubic meter</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety and Health</td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration</td>
</tr>
<tr>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
</tr>
<tr>
<td>ppm</td>
<td>parts per million</td>
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<td>PEL</td>
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<tr>
<td>RCRA</td>
<td>Resource Conservation and Recovery Act (EPA)</td>
</tr>
<tr>
<td>SARA</td>
<td>EPA's Superfund Amendment and Reauthorization Act (EPA)</td>
</tr>
<tr>
<td>STEL</td>
<td>Short-Term Exposure Limit, ACGIH terminology</td>
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<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
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<tr>
<td>TWA</td>
<td>Time-Weighted Average</td>
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</tbody>
</table>

This product is formulated and labeled for industrial and commercial application only.

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