

Date Prepared: 09/25/02
Supersedes: 08/01/01
Product Name: Freezban NC

ChemMasters

MATERIAL SAFETY DATA SHEET

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

| Hazardous Components | CAS # | Exposure Limits | | | % by Wt |
|-----------------------------------|------------|-----------------|-------|-------|---------|
| | | OSHA | ACGIH | OTHER | |
| Calcium (II) Nitrate Tetrahydrate | | | | | |
| | 13477-34-4 | --- | --- | --- | 60-65% |
| Water | 7732-18-5 | --- | --- | --- | 30-35% |

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:

NTP
NO

IARC Monographs
NO

OSHA Regulated
NO

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.

Date Prepared: 09/25/02
Supersedes: 08/01/01
Product Name: Freezban NC

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 | — | — | — |

Date Prepared: 09/25/02
Supersedes: 08/01/01
Product Name: Freezban NC

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 U S 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.

Date Prepared: 09/25/02
 Supersedes: 08/01/01
 Product Name: Freezban NC

Industrial Abbreviation Legend

| | | | |
|--------|--|-------------------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists | mg/m ³ | milligrams per cubic meter |
| CAA | Clean Air Act (EPA) | NIOSH | National Institute for Occupational Safety and Health |
| CERCLA | Comprehensive Environmental Response, Compensation & Liability Act of 1980 (Superfund) (EPA) | NTP | National Toxicology Program |
| CNS | Central Nervous System | OSHA | Occupational Safety and Health Administration |
| CWA | Clean Water Act (EPA) | PEL | Permissible Exposure Limit |
| DOT | Department of Transportation | ppm | parts per million |
| EPA | Environmental Protection Agency | RCRA | Resource Conservation and Recovery Act (EPA) |
| g/kg | grams per kilogram | SARA | EPA's Superfund Amendment and Reauthorization Act (EPA) |
| IARC | Internal Agency for Research on Cancer | STEL | Short-Term Exposure Limit, ACGIH terminology |
| LC50 | Lethal Concentration in which 50% of the test animals are expected to die | TLV | Threshold Limit Value |
| LD50 | Lethal Dose in which 50% of the test animals are expected to die | TWA | Time-Weighted Average |

THIS PRODUCT IS FORMULATED AND LABELED FOR INDUSTRIAL AND COMMERCIAL APPLICATION ONLY

The information contained herein is given in good faith and based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. ChemMasters assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material.