



**Material Safety Data Sheet
Nitrogen (Ammonia) Standard, 1000 ppm**

Section 1 - Chemical Product and Company Identification

MSDS Name:
Nitrogen (Ammonia) Standard, 1000 ppm

Catalog Numbers:
LC17940

Synonyms:
None

Company Identification:
LabChem Inc
200 William Pitt Way
Pittsburgh, PA 15238

Company Phone Number:
(412) 826-5230

Emergency Phone Number:
(800) 424-9300

CHEMTREC Phone Number:
(800) 424-9300 or
(011) 703-527-3887

Section 2 – Composition, Information on Ingredients

| CAS# | Chemical Name: | Percent |
|------------|-------------------|---------|
| 7732-18-5 | Water | balance |
| 12125-02-9 | Ammonium chloride | 0.38 |

Section 3 - Hazards Identification

Emergency Overview

Appearance: Clear, colorless solution
Caution. May cause eye irritation.
Target Organs: Eyes.

Potential Health Effects

Eye:
May cause eye irritation.

Skin:
May cause mild skin irritation.

Ingestion:
May cause mild gastrointestinal irritation.

Inhalation:
May cause mild respiratory irritation if heated, due to the release of ammonia vapors.

Chronic:
May cause dermatitis and conjunctivitis. Exposure to ammonia vapors may cause an asthma-like



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allergy. Ammonium ions may accumulate in individuals with liver or kidney disease, producing jerky respirations and periods of apnea.

Section 4 - First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

Skin:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion:

Give conscious victim 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid if irritation or symptoms occur.

Inhalation:

Move victim to fresh air immediately. Get medical aid if irritation or other symptoms appear.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Move container if possible. Avoid breathing vapors or dust.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature:

No information found.

Flash Point:

No information found.

NFPA Rating:

CAS# 7732-18-5: Health- 0, Flammability- 0, Instability- 0.

CAS# 12125-02-9: Health- 2, Flammability- 0, Instability- 0.

Explosion Limits:

Lower: N/A Upper: N/A

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spills with inert material (vermiculite, sand, fuller's earth) and place in suitable containers labeled for later disposal. Area may be washed down with water.



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Section 7 - Handling and Storage

Handling:

Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage:

Store tightly capped at room temperature. Protect from heat and incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities using or storing this material should be equipped with an eyewash and safety shower. Provide local exhaust or general dilution ventilation to keep airborne levels below the permissible exposure limits.

Exposure Limits:

| Chemical Name: | ACGIH | NIOSH | OSHA |
|-------------------|---|---|---|
| Water | None of the components are on this list | None of the components are on this list | None of the components are on this list |
| Ammonium chloride | 10 mg/m ³ TWA (fume) 20 mg/m ³ STEL (fume) | 10 mg/m ³ TWA (fume) | None of the components are on this list |

OSHA Vacated PELs:

Ammonium chloride: 10 mg/m³ TWA

Personal Protective Equipment**Eyes:**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133. Do not wear contact lenses when working with chemicals.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134. Always use a NIOSH-approved respirator when necessary.

Section 9 - Physical and Chemical Properties

| | |
|--------------------------------|-----------------------|
| Physical State: | Clear liquid |
| Color: | Colorless |
| Odor: | Odorless |
| pH: | 5-7 |
| Vapor Pressure: | 14 mm Hg @20C |
| Vapor Density: | No information found. |
| Evaporation Rate: | No information found. |
| Viscosity: | No information found. |
| Boiling Point: | 212°F (100°C) |
| Freezing/Melting Point: | 32°F (0°C) |



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| | |
|-----------------------------------|-----------------------|
| Decomposition Temperature: | No information found. |
| Solubility in water: | No information found. |
| Specific Gravity/Density: | 1.0 |
| Molecular Formula: | Solution |
| Molecular Weight: | No information found. |

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, excess heat.

Incompatibilities with Other Materials:

Acids, bases, bromine trifluoride, nitrates, potassium chlorates, silver salts, carbonates, bromine pentafluoride, lead salts.

Hazardous Decomposition Products:

Ammonia, hydrochloric acid.

Hazardous Polymerization:

May occur.

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 12125-02-9: BP4550000; BP4570000.

LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 12125-02-9:

Oral, mouse: LD50 = 1300 mg/kg

Oral, rat: LD50 = 1650 mg/kg.

Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 12125-02-9: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

No information found

Teratogenicity:

No information found

Reproductive:

No information found

Mutagenicity:

Cytogenetic analysis: hamster fibroblast, 400 mg/L.

Neurotoxicity:

No information found



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Section 12 - Ecological Information

No information found

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA:

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 12125-02-9 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ):

CAS# 12125-02-9: final RQ = 5000 pounds (2270 kg)

CERCLA/SARA Section 313:

None of the components are on this list.

OSHA - Highly Hazardous:

None of the components are on this list.

US State

State Right to Know:

Ammonium chloride can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

California Regulations:

None.

European/International Regulations

Canadian DSL/NDSL:

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 12125-02-9 is listed on Canada's DSL List.

Canada Ingredient Disclosure List:

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 12125-02-9 is listed on Canada's Ingredient Disclosure List.



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Section 16 - Other Information

MSDS Creation Date: November 19, 1997

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