



Material Safety Data Sheet Nitrate-Nitrogen Standard, 1000ppm

Section 1 - Chemical Product and Company Identification

MSDS Name:

Nitrate-Nitrogen Standard, 1000ppm

Catalog Numbers:

LC17900

Synonyms:

Solutions of nitre; saltpeter

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
7757-79-1	Potassium nitrate	0.7

Section 3 - Hazards Identification

Emergency Overview

Appearance: Clear, colorless solution

Caution! May cause irritation to eyes and skin. May cause irritation to the gastrointestinal tract.

Target Organs: None known.

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause mild skin irritation.

Ingestion:

May cause gastrointestinal irritation with nausea, vomiting, and diarrhea.

Inhalation:

Solution is not likely to cause respiratory tract irritation at this concentration.



Material Safety Data Sheet Nitrate-Nitrogen Standard, 1000ppm

Chronic:

In rare cases, nitrate may be converted to nitrite in the body, causing methemoglobinemia and adverse kidney effects. This effect has mostly been reported in infants.

Section 4 - First Aid Measures

Eyes:

Immediately 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.

Skin:

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

Ingestion:

Do not induce vomiting. Give conscious victim 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:

Move victim to fresh air immediately. Get medical aid if cough 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. Contains an oxidizer, which may contribute to fire.

Extinguishing Media:

Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Autoignition Temperature:

Not available.

Flash Point:

Not applicable.

NFPA Rating:

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

CAS# 7757-79-1: Health- 1, Flammability- 0, Instability- 3, Special Hazard- OX.

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 absorbent (vermiculite, sand, fuller's earth) and place in suitable containers for later disposal. Do not use paper towels or combustible materials for cleanup.



Material Safety Data Sheet Nitrate-Nitrogen Standard, 1000ppm

Section 7 - Handling and Storage

Handling:

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

Storage:

Store in a cool, dry area away from 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.

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.
Potassium nitrate	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

OSHA Vacated PELs:

None

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 29CFR 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:	No information found.
Vapor Pressure:	14 mm Hg @20C
Vapor Density:	0.7
Evaporation Rate:	No information found.
Viscosity:	No information found.
Boiling Point:	100°C (212°F)
Freezing/Melting Point:	0°C (32°F)



Material Safety Data Sheet Nitrate-Nitrogen Standard, 1000ppm

Decomposition Temperature: No information found.
Solubility in water: Soluble
Specific Gravity/Density: 1.0
Molecular Formula: Not applicable.
Molecular Weight: Not applicable.

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible substances, excess heat.

Incompatibilities with Other Materials:

Strong oxidizing agents, reducing agents, combustible and flammable materials.

Hazardous Decomposition Products:

Nitrogen oxides, oxygen.

Hazardous Polymerization:

Has not been reported.

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 7757-79-1: TT3700000.

LD50/LC50:

CAS# 7732-18-5:

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

CAS# 7757-79-1:

Oral, rabbit: LD50 = 1901 mg/kg

Oral, rat: LD50 = 3540 mg/kg.

Carcinogenicity:

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

CAS# 7757-79-1: 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:

No information found.

Neurotoxicity:

No information found.

Section 12 - Ecological Information



Material Safety Data Sheet Nitrate-Nitrogen Standard, 1000ppm

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# 7757-79-1 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ):

None of the components are on this list.

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:

Potassium nitrate can be found on the following state Right-to-Know lists: New Jersey, Florida, Pennsylvania, Massachusetts.

California Regulations:

None.

European/International Regulations

Canadian DSL/NDSL:

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

CAS# 7757-79-1 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# 7757-79-1 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: November 11, 1997

Revision Date: July 30, 2010



Material Safety Data Sheet
Nitrate-Nitrogen Standard, 1000ppm

Information in this MSDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc. assumes no liability resulting from the use of this MSDS. The user must determine suitability of this information for his application.