



Material Safety Data Sheet
Nitrite-nitrogen standard, 1ml = 1mg N (1000ppm)

Section 1 - Chemical Product and Company Identification

MSDS Name:

Nitrite-nitrogen standard, 1ml = 1mg N (1000ppm)

Catalog Numbers:

LC17920

Synonyms:**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

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
7758-09-0	Potassium nitrite	0.61%

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: Clear, colorless solution.

This is expected to be a low hazard for usual industrial handling.

Target Organs: Noneknown.

Potential Health Effects

Eye:

Maycausemildeyeirritation.

Skin:

Maycausemildskinirritation.

Ingestion:

Athighconcentrationsofpotassiumnitrite,Ingestionsymptomsincludeabdominalspasms,collapse,coma,blood disorders and fatal respiratory paralysis.



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Inhalation:

Higher concentrations of KNO_2 produce coughing, dyspnea, headache, flushing of skin, nausea, vomiting, shock, marked hypotension, cyanosis, convulsions, coma, respiratory paralysis.

Chronic:

May cause dermatitis and conjunctivitis.

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.

Skin:

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Induce vomiting. Give conscious victim 2-4 cupfuls of milk or water. Get medical aid at once.

Inhalation:

Get medical aid at once. Move victim to fresh air immediately. Maintain airway, medical personnel may give oxygen and treat for methemoglobinemia.

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.

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: Not published.

CAS# 7758-09-0: Not published.

Explosion Limits:

Lower: Upper:

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill using an absorbent, non-combustible material such as earth, sand, diatomaceous earth, vermiculite, or other suitable absorbent.



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Section 7 - Handling and Storage

Handling:

Store capped in virgin polyethylene or equivalent plastic container.

Storage:

Store at room temperature.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Good general ventilation should be sufficient to control airborne levels.

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 nitrite	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

Personal Protective Equipment

Eyes:

Wear appropriate protective eye glasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

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: No information found.

Vapor Pressure: 14 mm Hg @20°C

Vapor Density: 0.7

Evaporation Rate: < ether

Viscosity: No information found.

Boiling Point: > 100°C (> 212.00°F)

Freezing/Melting Point: < 0°C (< 32.00°F)



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Decomposition Temperature: No information found.

Solubility in water: Soluble.

Specific Gravity/Density: 1.0

Molecular Formula: No information found.

Molecular Weight: No information found.

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Reducing agents, fuels.

Incompatibilities with Other Materials

No information found.

Hazardous Decomposition Products

Oxides of nitrogen.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 7758-09-0: TT3750000.

LD50/LC50:

CAS# 7732-18-5:

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

CAS# 7758-09-0:

Inhalation, mouse: LC50 = 85 gm/m³/2H

Oral, rabbit: LD50 = 200 mg/kg.

Carcinogenicity:

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

CAS# 7758-09-0: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

Potassium nitrite is a blood poison. May be fatal. However, no toxic effects are anticipated at this level of potassium nitrite concentration.

Teratogenicity:

Reproductive:

Mutagenicity:

Neurotoxicity:

Section 12 - Ecological Information

No information found.



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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# 7758-09-0 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 nitrite can be found on the following state Right-to-Know lists: New Jersey.

California Regulations

European/International Regulations

Canadian DSL/NDSL

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

CAS# 7758-09-0 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# 7758-09-0 is listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: October 21, 1997

Revision Date: August 29, 2008



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