



Material Safety Data Sheet
Iron AA standard 1000ppm 1ml=1mg Fe

Section 1 - Chemical Product and Company Identification

MSDS Name:

Iron AA standard 1000ppm 1ml=1mg Fe

Catalog Numbers:

LC15700

Synonyms:

Iron Reference Standard solution

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
7697-37-2	Nitric acid	2
7782-61-8	Ferric nitrate.9h20	0.72

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

*Appearance: Paleyellow**Caution! Corrosive. May cause severe eye and skin irritation with possible burns.**Target Organs: Noneknown.***Potential Health Effects****Eye:**

Eyecontactmayresultinpain,photophobia,tearing,edema,cornealulceration,burns,anddeeptissueneerosis.

Skin:

Skinmayturnbrown-yellow.Deepburnsareslowtohealandscarringmayoccur.Dermalburnsmayoccur depending on duration of contact.



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Ingestion:

May cause severe irritation to gastrointestinal tract with burning of the mouth, vomiting, diarrhea. May cause nausea, headache, and vomiting.

Inhalation:

May cause coughing, headache, dizziness, weakness, dryness of respiratory tract, chest pain, frothy sputum, dyspnea, hypotension, cyanosis; pneumonitis and fatal pulmonary edema may follow; permanent scar tissue may form.

Chronic:

Dermatitis, conjunctivitis, dental erosion, jaw necrosis, chronic cough, bronchitis, chemical pneumonitis, gastrointestinal disturbances.

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. Cover burns with loose sterile non-medicated bandages.

Skin:

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes. Cover burns with a dry sterile bandage (secure, not tight).

Ingestion:

Give 1 ounce of milk of magnesia. Do not use gastric lavage or induce vomiting. Medical personnel should maintain airway and respiration, treat for shock. Give conscious non-convulsive victim large quantities of water, do not induce vomiting.

Inhalation:

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

Negligible fire and explosion hazard when exposed to heat or flame. Avoid breathing corrosive vapors, knockdown with water spray.

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# 7697-37-2: Not published.

CAS# 7782-61-8: Not published.

Explosion Limits:

Lower: Upper:



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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 plastic bags for later disposal. Keep out of sewers/drains. Scoop material into suitable (plastic or glass) container, label for disposal as "corrosive".

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas.

Storage:

Store capped at room temperature. Store in glass or approved plastic containers only, keep capped. Protect from heat and incompatibles.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Provide local exhaust or general dilution ventilation. Work under hood-SAR/SCBA (high 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.
Nitric acid	2 ppm TWA; 4 ppm STEL	2 ppm TWA; 5 mg/m ³ TWA	2 ppm TWA; 5 mg/m ³ TWA;
Ferric nitrate.9h20	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

Nitric acid: 2 ppm TWA; 5 mg/m³ TWA
 Nitric acid: 2 ppm TWA; 5 mg/m³ TWA

Personal Protective Equipment

Eyes:

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

Skin:

Wear impervious gloves (viton, saranex).

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Not required for normal use.



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Section 9 - Physical and Chemical Properties

Physical State: Clear liquid
Color: Paleyellow
Odor: Odorless
pH: Acidic
Vapor Pressure: 14mm Hg @20°C
Vapor Density: > air
Evaporation Rate: < ether
Viscosity: No information found.
Boiling Point: 212°F (100.00°C)
Freezing/Melting Point: 32°F (0.00°C)
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:

Incompatible materials.

Incompatibilities with Other Materials

Acetone, acetic acid, sulfuric acid, glycerides, cyanates, non-metal oxides (arsine, phosphine), acrylonitrile, germanium, sulfur halides, antimony, hydrogen telluride, nitroaromatic hydrocarbons, acetylene, oxidizing agents.

Hazardous Decomposition Products

Nitric acid vapors and nitric oxides are quietly evolved - this reaction is catalyzed by sunlight.

Hazardous Polymerization

Has not been reported

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 7697-37-2: QU5775000; QU5900000.

CAS# 7782-61-8: NO7175000.



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LD50/LC50:

CAS# 7732-18-5:

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

CAS# 7697-37-2:

Inhalation, rat: LC50 =67 ppm(NO2)/4H.

CAS# 7782-61-8:

Oral, rat: LD50 = 3250 mg/kg.

Carcinogenicity:

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

CAS# 7697-37-2: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 7782-61-8: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

Nitric acid--severe eye, skin, mucous membrane irritant.

LDLO: 110mg/Kg Unk-man; 430mg/Kg Oral-human.

Ferric nitrate <1% not considered hazardous at this concentration.

Teratogenicity:

Reproductive:

Mutagenicity:

Neurotoxicity:

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: Corrosive liquid, acidic, inorg., n.o.s.

(Nitric acid)

Hazard Class: 8

UN Number: UN3264

Packing Group: PG II

Section 15 - Regulatory Information

US Federal

TSCA

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

CAS# 7697-37-2 is listed on the TSCA Inventory.

CAS# 7782-61-8 is not listed on the TSCA Inventory. It is for research and development use only.



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SARA Reportable Quantities (RQ)

CAS#7697-37-2:finalRQ=1000pounds(454kg)

CERCLA/SARA Section 313

This material contains Nitric acid (CAS#7697-37-2, 2%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

OSHA - Highly Hazardous

CAS#7697-37-2 is considered highly hazardous by OSHA.

US State

State Right to Know

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

California Regulations

European/International Regulations

Canadian DSL/NDSL

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

CAS# 7697-37-2 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# 7697-37-2 is listed on Canada's Ingredient Disclosure List.

CAS# 7782-61-8 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: October 27, 1998

Revision Date: September 5, 2007

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