



Material Safety Data Sheet

Sulfanilamide/N-Naphthalenediamine dihydrochloride, Color reagent for nitrogen (nitrate)

Section 1 - Chemical Product and Company Identification

MSDS Name:

Sulfanilamide/N-Naphthalenediamine dihydrochloride, Color reagent for nitrogen (nitrate)

Catalog Numbers:

LC13280, LC25460

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
7664-38-2	Phosphoric acid	10
63-74-1	Sulfonamide	1-4
1465-25-4	N-(1-naphthyl)ethylenediamine dihydrochloride	0.1-0.2

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: Colorless

Caution! May cause severe eye and skin irritation with possible burns.

Target Organs: Noneknown.

Potential Health Effects

Eye:

May cause irritation, pain, blurred vision, possible burns, and conjunctivitis.

Skin:

Skin contact may result in irritation, pain, burns, blisters, and brown or yellow stains.



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Ingestion:

High dose ingestion may cause sore throat, abdominal pain, burn to mouth/pharynx, vomiting, diarrhea, hypotension, asphyxia (from glottal edema).

Inhalation:

Inhalation can result in shortness of breath, pulmonary edema, frothy sputum, sore throat, coughing, choking, headache, dizziness, weakness, cyanosis, hypotension, rapid pulse - can be fatal.

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:

Get medical aid at once. Give oxygen if respiration is depressed. If vomiting occurs, keep head lower than hip to prevent aspiration. If victim is conscious, give 2-4 glasses of water to dilute alkali.

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. Move container if possible, avoid breathing vapors or dust. Irritating or poisonous vapors can be formed during thermal decomposition; avoid breathing vapors or mists.

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# 7664-38-2: Not published.

CAS# 63-74-1: Not published.

CAS# 1465-25-4: 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:

May be neutralized with slaked lime, limestone, or sodium bicarbonate to a pH 7. Absorb with inert material (sand, diatomaceous earth) scoop into non-metallic container, label "Corrosive" for later disposal.

Section 7 - Handling and Storage

Handling:

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

Storage:

Keep away from metals. Keep away from strong bases. Store capped at room temperature. Protect from heat and incompatibles.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Provide local exhaust or general dilution ventilation. Corrosion proof equipment is recommended.

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.
Phosphoric acid	1 mg/m ³ TWA; 3 mg/m ³ STEL	1 mg/m ³ TWA	1 mg/m ³ TWA;
Sulfonamide	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
N-(1-naphthyl)ethylenediamine dihydrochloride	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

Phosphoric acid: 1 mg/m³ TWA
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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 appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.



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Respirators:

50mg/M3HiEPF/SAF/SCBAF.

200mg/M3 SAF:PD,PP,CF.

Firefighting- SCBAF:PD.PP.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Color: Colorless

Odor: Odorless

pH: Acidic

Vapor Pressure: No information found.

Vapor Density: No information found.

Evaporation Rate: No information found.

Viscosity: No information found.

Boiling Point: No information found.

Freezing/Melting Point: No information found.

Decomposition Temperature: No information found.

Solubility in water: Soluble.

Specific Gravity/Density: No information found.

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

Metals.

Hazardous Decomposition Products

Oxides of nitrogen, oxides of sulfur, oxides of phosphorus, oxides of carbon.

Hazardous Polymerization

Has not been reported

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 7664-38-2: TB6300000.

CAS# 63-74-1: WO8400000.

CAS# 1465-25-4: KV5330000.



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LD50/LC50:

CAS# 7732-18-5:

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

CAS# 7664-38-2:

Oral, rat: LD50 = 1530 mg/kg

Skin, rabbit: LD50 = 2740 mg/kg.

CAS# 63-74-1:

Oral, mouse: LD50 = 3 gm/kg

Oral, rabbit: LD50 = 1300 mg/kg

Oral, rat: LD50 = 3900 mg/kg.

CAS# 1465-25-4:

No information found.

Carcinogenicity:

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

CAS# 7664-38-2: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 63-74-1: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 1465-25-4: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

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: Phosphoric acid solution

Hazard Class: 8

UN Number: UN1805

Packing Group: PG III

Section 15 - Regulatory Information

US Federal



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TSCA

CAS#7732-18-5 is listed on the TSCA Inventory.
CAS#7664-38-2 is listed on the TSCA Inventory.
CAS#63-74-1 is listed on the TSCA Inventory.
CAS#1465-25-4 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ)

CAS#7664-38-2: 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

Phosphoric 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# 7664-38-2 is listed on Canada's DSL List.
CAS# 63-74-1 is listed on Canada's DSL List.
CAS# 1465-25-4 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# 7664-38-2 is listed on Canada's Ingredient Disclosure List.
CAS# 63-74-1 is not listed on Canada's Ingredient Disclosure List.
CAS# 1465-25-4 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: February 19, 1998
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