



Material Safety Data Sheet

Ammonium thiocyanate solutions

Section 1 - Chemical Product and Company Identification

MSDS Name:

Ammonium thiocyanate solutions

Catalog Numbers:

LC11345, LC11350, LC11370

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
1762-95-4	Ammonium thiocyanate	0.19 - 30

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: Colorless

Caution! May cause eye and skin irritation. May cause digestive tract irritation.

Target Organs: none known.

Potential Health Effects

Eye:

May cause redness, tearing, irritation, burning, blurred vision.

Skin:

May cause mild skin irritation.

Ingestion:

May cause headache, nausea, vomiting, dizziness, fainting, diarrhea, constipation, ulceration, confusion, delirium, psychotic behavior and muscular spasm.



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Inhalation:

Inhalation of vapors may cause respiratory tract irritation and coughing.

Chronic:

Exposure may result in mucous membrane irritation, dermatitis, 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. Get medical aid at once.

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.

Ingestion:

Give conscious victim 2-4 cupful of milk or water. Get medical aid at once. Give oxygen if respiration is depressed. Induce vomiting (touch finger to back of throat) keeping head lower than hips (prevent aspiration into lungs).

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 vapors-toxic fumes of cyanide, oxides of sulfur and nitrogen can occur. 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: Not published.

CAS# 1762-95-4: 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 spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal.



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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 amber containers. Protect from heat and incompatibles.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

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.
Ammonium thiocyanate	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:**

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.

Respirators:

Not required for normal use. Firefighting--any self-contained breathing apparatus with full face piece operated in pressure-demand mode.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Color: Colorless

Odor: Odorless

pH: Slight acidic

Vapor Pressure: 14 mm Hg @20C

Vapor Density: 0.7

Evaporation Rate: No information found.

Viscosity: No information found.

Boiling Point: 212°F (100.00°C)

Freezing/Melting Point: 32°F (0.00°C)



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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:

Incompatible materials.

Incompatibilities with Other Materials

Oxidizing agents, chlorates.

Hazardous Decomposition Products

Oxides of nitrogen, oxides of carbon, oxides of sodium.

Hazardous Polymerization

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 1762-95-4: XK7875000.

LD50/LC50:

CAS# 7732-18-5:

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

CAS# 1762-95-4:

Oral, mouse: LD50 = 500 mg/kg

Oral, rat: LD50 = 750 mg/kg.

Carcinogenicity:

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

CAS# 1762-95-4: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

Ammonium thiocyanate is toxic by oral administration, affecting the central nervous system. In sufficient concentrations it is an eye, skin, and mucous membrane/respiratory irritant.

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# 1762-95-4 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ)

CAS# 1762-95-4: 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 thiocyanate can be found on the following state Right-to-Know lists: California, New Jersey, Pennsylvania, Massachusetts.

California Regulations

European/International Regulations

Canadian DSL/NDSL

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

CAS# 1762-95-4 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# 1762-95-4 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: February 19, 1998

Revision Date: December 21, 2006



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