



# American International Chemical, Inc.

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## MATERIAL SAFETY DATA SHEET

### AMMONIUM THIOCYANATE SOLUTION

#### SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
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Date: August 2007

Synonyms: Ammonium Rhodanate

CAS #: 1762-95-4

DOT Hazard Class: Not Regulated

#### SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Ammonium Thiocyanate	50-62%
Water	38-50%

#### SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Clear odorless aqueous solution with a slight ammonia odor, may irritate eyes, skin and respiratory tract. Harmful if swallowed. Keep away from oxidizers and alkali acids.

POTENTIAL HEALTH EFFECTS:

**Eyes and Skin:** May cause irritation and skin rash.

**Inhalation:** May irritate respiratory system.

**Ingestion:** May cause cramps and stomach discomfort.

CHRONIC HEALTH EFFECTS: Prolonged direct exposure with absorption into the body may cause skin rash, dizziness and gastrointestinal symptoms, including nausea and cramps.

CARCINOGENICITY: Not listed under OSHA, IARC or NTP.

#### SECTION 4 - FIRST AID MEASURES

Ammonium Thiocyanate Solution

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**Skin:** Immediately wash skin with soap and water for at least 15 minutes.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes, holding eye lids apart.

**Inhalation:** Remove to the fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Ingestion:** Wash out mouth with water.

**On All Of The Above:** Consult a physician if symptoms persist.

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## **SECTION 5 - FIRE FIGHTING MEASURES**

Flash Point: Not Applicable

Flammable Limits: Not Applicable

Extinguishing Media: Dry chemical, water spray, foam and sand/earth.

Special Fire Fighting Procedures:

Use fire fighting procedure that is appropriate to treat surrounding fire. All firefighters should use self-contained breathing apparatus and full fire-fighting turn-out gear.

Unusual Fire Explosion Hazard: Contact with strong acids or oxidizing agents or combustion in a fire may generate toxic concentrations of sulfur dioxide, nitrogen oxides, cyanides or hydrogen sulfide.

Auto Ignition Temperature: Not Applicable

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## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Isolate hazard area and deny entry to unnecessary or unprotected personnel. Contain spilled liquid with sand or earth. Place in a disposal container. Avoid runoff into storm sewers and ditches, which lead to waterways

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## **SECTION 7 - HANDLING AND STORAGE**

Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Avoid breathing vapors/mists. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials.

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## **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

**RESPIRATORY PROTECTION:** Use NIOSH/MSHA approved respirators.

**VENTILATION REQUIREMENTS:** Ventilate as necessary to eliminate vapors/mists from the work area and maintain concentrations below the limit.

**SKIN AND EYE PROTECTION:** Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from liquid.

**WORK, HYGIENIC PRACTICES:**

As required to protect skin and eyes from liquid, safety showers and/or eyewash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

**EXPOSURE LIMITS:** None Established

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## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: Not Applicable

Vapor Pressure (MM Hg): Not Applicable

Vapor Density (AIR=1): No Data Available

Specific Gravity (H<sub>2</sub>O=1): 1.120-1.150

Percent Volatile by Volume (%): Not Applicable

Melting Point: Not Applicable

Evaporation Rate (Butyl Acetate=1): Less than 1 @ 25°C

Solubility in Water: Complete

pH: 5.0-7.5

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#### **SECTION 10 - STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen sulfide, hydrogen cyanide and ammonia.

KEEP AWAY FROM: Strong alkalis or oxidizing agents, (such as hydrogen peroxide, bromine and chromic acid) and alkalis.

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#### **SECTION 11 - TOXICOLOGICAL INFORMATION**

Not Available

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#### **SECTION 12 - ECOLOGICAL INFORMATION**

Not Available

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#### **SECTION 13 - DISPOSAL CONSIDERATIONS**

Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

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#### **SECTION 14 - TRANSPORTATION INFORMATION**

D.O.T. SHIPPING NAME: AMMONIUM THIOCYANATE SOLUTION

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**SECTION 15 - REGULATORY INFORMATION**

OSHA STATUS: Not listed

TSCA STATUS: Listed

CERCLA REPORTABLE REQUIREMENTS: (RQ) 5,000 lbs

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance Not listed

Section 313 Toxic Chemicals: Not listed

Section 311/312 Hazard Category: Immediate (Acute).

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**SECTION 16 - OTHER INFORMATION**

NFPA:

Fire 0  
Toxicity 1 (slight)  
Reactivity 0

HMIS:

Health 1 (slight)  
Flammability 0  
Reactivity 0

Reason for Issue: Changed Date

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