

**ISO 9001 Quality System Certified Organization****MANUFACTURER & EXPORTER OF LABORATORY CHEMICALS AND OILS****Address : H.No.712/3, sainagar, Palghar mumbai 401102**✉ sales@ultrapurelab.com / info@ultrapurelab.com☎ / 📠 [+91 7058322540](tel:+917058322540) / [+91 7378378726](tel:+917378378726)🌐 www.ultrapurelab.com**MATERIAL SAFETY DATA SHEET (MSDS)
SDS/MSDS****Ammonium thiocyanate AR**

Section 1 - Chemical Product

MSDS Name: Ammonium thiocyanate AR

Synonyms: Thiocyanic acid; ammonium salt; Ammonium rhodanate; Ammonium sulfocyanate; Ammonium sulfocyanide; Ammonium thiocyanate; Ammonium rhodanide.

Section 2 - Composition, Information on Ingredient

CAS#	Chemical Name	Percent	EINECS
1762-95-4	AMMONIUM THIOCYANATE AR	99%	

Hazard Symbols: XN

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: white crystalline powder. Causes eye and skin irritation. Causes respiratory tract irritation. Warning! May be harmful if swallowed, inhaled, or absorbed through the skin. Hygroscopic (absorbs moisture from the air). Contact with acids liberates toxic gas.

Target Organs: Respiratory system, eyes, thyroid, skin.

Potential Health Effects

Eye: May cause moderate eye irritation.

Skin: Causes skin irritation. May be harmful if absorbed through the skin.

Ingestion: Harmful if swallowed. Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause agitation, delirium, convulsions, low blood pressure, anxiety and even unconsciousness and death.

Inhalation: Causes respiratory tract irritation. May be harmful if inhaled.

Chronic: Prolonged or repeated skin contact may cause dermatitis. Chronic exposure may cause thyroid damage: thyroid enlargement, decrease in metabolic rate, and hypothyroidism. Repeated exposure can cause headache, nausea, vomiting, loss of appetite and weight loss.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use water spray, dry chemical, "alcohol resistant" foam, or carbon dioxide.

Flash Point: 190 deg C (374.00 deg F)

Autoignition Temperature: Not available.

Explosion Limits, Lower:Not available.

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Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 1; Instability: 1

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Use only with adequate ventilation.

Storage: Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Dark room.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs	
AMMONIUM THIOCYANATE		none listed	none listed	none listed

OSHA Vacated PELs: AMMONIUM THIOCYANATE: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate 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 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State: Crystalline powder

Appearance: white

Odor: odorless

pH: 4.5-6.0 in 5% sol.

Vapor Pressure: Negligible.

Vapor Density: Not available.

Evaporation Rate: Negligible.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 149 deg C

Decomposition Temperature: 190 deg C

Solubility: Freely Soluble.

Specific Gravity/Density: 1.305 g/cm³Molecular Formula: NH₄SCN

Molecular Weight: 76.12

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. May decompose when exposed to light.

Conditions to Avoid: Dust generation, moisture, excess light.

Incompatibilities with Other Materials: Strong oxidizing agents, strong acids, brass, copper, iron.

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Hazardous Decomposition Products: Hydrogen cyanide, nitrogen oxides, carbon monoxide, oxides of sulfur, carbon dioxide, ammonia and/or derivatives.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

Carcinogenicity:

CAS# 1762-95-4: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: No data available.

Teratogenicity: No data available.

Reproductive Effects: No data available.

Neurotoxicity: No data available.

Mutagenicity: No data available.

Other Studies: No data available.

Section 12 - Ecological Information

Ecotoxicity: No data available. Acute aquatic effect: 96-hour LC50; fathead minnow: 100 mg/L 96-hour LC50; water flea: 170 mg/L 48-hour LC50; mosquito fish: 420 mg/L

Environmental: This chemical has a low biological oxygen demand, and it is expected to cause little oxygen depletion in aquatic systems. It has a low potential to affect aquatic organisms. It is not likely to bioconcentrate.

Physical: No information available.

Other: No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

US DOT IATA RID/ADR IMO Canada TDG

Shipping Name: No information available.

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 1762-95-4 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

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CERCLA Hazardous Substances and corresponding RQs

CAS# 1762-95-4: 5000 lb final RQ; 2270 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 1762-95-4: acute, chronic.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

CAS# 1762-95-4 is listed as a Hazardous Substance under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

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

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

XN

Risk Phrases:

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R 32 Contact with acids liberates very toxic gas.

Safety Phrases:

S 36/37 Wear suitable protective clothing and gloves.

S50A Do not mix with acids.

WGK (Water Danger/Protection)

CAS# 1762-95-4: 1

Canada - DSL/NDSL

CAS# 1762-95-4 is listed on Canada's DSL List.

Canada - WHMIS

WHMIS: Not available.

Canadian Ingredient Disclosure List

CAS# 1762-95-4 (listed as Cyanides, inorganic salts) is listed on the Canadian Ingredient Disclosure List.

Exposure Limits

CAS# 1762-95-4: OEL-RUSSIA:STEL 5 mg/m³

Section 16 - Additional Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes

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