Section 1. Product and Company Identification

Product Name Ammonium Thiocyanate
CAS Number 1762-95-4

Parchem - fine & specialty chemicals
415 Huguenot Street
New Rochelle, NY 10801
(914) 654-6800 **(914) 654-6899**
parchem.com **info@parchem.com**

EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture
Physical Hazards
Not classified

Health Hazards
Acute toxicity - Oral: (Category 4)
Acute toxicity - Dermal: (Category 4)
Acute toxicity - Inhalation: (Category 4)
Serious eye damage/irritation: (Category 1)
Specific target organ toxicity - Repeated exposure: (Category 1) (Thyroid gland)

Environmental Hazards
Acute aquatic toxicity: (Category 3)
Chronic aquatic toxicity: (Category 3)

GHS Label Elements
Pictograms:

Signal word: DANGER

Hazard and precautionary statements
Hazard Statements
Harmful if swallowed, or in contact with skin, or if inhaled.
Causes serious eye damage
Causes damage to organs through prolonged or repeated exposure: Thyroid gland.
Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention

Wear protective gloves/protective clothing/eye protection /face protection.
Do not breathe dust/fume/gas/mist /vapors/spray.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wash thoroughly after handling.
Avoid release to the environment.

Response

IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Storage

None

Disposal

Dispose of contents/container in accordance with local / regional / national / international regulation

Section 3. Composition / Information on Ingredients

Common Name Ammonium Thiocyanate
CAS Number 1762-95-4

COMPONENT	CAS NUMBER	CONCENTRATION
Ammonium Thiocyanate	1762-95-4	≥ 98%

Section 4. First Aid Measures

Skin Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If irritation persists, call a physician.
Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. If irritation persists, call a physician.
Inhalation Exposure: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.
Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed: No data available.
Indication of any immediate medical attention and special treatment needed: No data available.

Section 5. Firefighting Measures

Suitable Extinguishing Media: Dry chemical, Water spray, Carbon dioxide, or appropriate foam.
Special hazards arising from the substance or mixture: May decompose upon combustion or in high temperatures to generate carbon monoxide, carbon dioxide, sulfur oxides (SOx), carbon disulfide, hydrogen sulfide, nitrogen oxides (NOx), ammonia, hydrogen cyanide (hydrocyanic acid).

Advice for firefighters
Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Use personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions: Do not let product enter drains.
Methods and materials for containment and cleaning up: Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7. Handling and Storage

Precautions for safe handling: Wear appropriate protective clothing and gloves. Avoid dust formation. Avoid inhalation. Avoid contact with eyes, skin and clothing. Mechanical exhaust required. Keep away from ignition sources, heat and flame. Incompatibilities: Oxidants, nitrates, acids, alkaline salts, lead, chlorates. No smoking at working site. Normal measures for preventive fire protection.

Conditions for safe storage, including any incompatibilities: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from ignition sources, heat and flame. Incompatibilities: Oxidants, nitrates, acids, alkaline salts, lead, chlorates

Section 8. Exposure Controls / Personal Protection

Control parameters: No data available.

Appropriate engineering controls: Mechanical exhaust required. Safety shower and eye bath.

Personal Protective Equipment
Respiratory: Wear government approved respirator if needed.
Eye: Wear chemical safety glasses if needed.
Clothing: Wear appropriate protective clothing.

Hand: Wear compatible protective gloves.

Other Protect: No smoking, drinking and eating at working site. Wash thoroughly after handling

Section 9. Physical and Chemical Properties

Appearance: Off-white granule crystal
Odor: Weak odor
Melting Point/°C: 141.3 - 143. 2°C
pH Value: 4.9 (25°C, 50.0 g/ L)
Solubility: Soluble in water

Section 10. Stability and Reactivity

Reactivity: Ammonium thiocyanate reacts with ferric salts forming blood red ferric thiocyanate, but does not react with ferrous salts.

Chemical Stability: Sensitive to light. The solution turns red under sunlight. Thiourea is formed when ammonium thiocyanate is heated to 140°C. And it decomposes into ammonia, hydrogen sulfide and carbon disulfide when heated to 170'C.

Possibility of Hazardous Reactions: In case of the following substances or conditions causes explosion or releases toxic gases: Oxidants, nitrates, acids, alkaline salts, lead, hit or friction, chlorates.
Conditions to Avoid: Wet. Sunlight. Hit or friction. Exposure to the air may influence the quality of the product.
Incompatible Materials: Oxidants, nitrates, acids, alkaline salts, lead, chlorates.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, sulfur oxides (SOx), carbon disulfide, hydrogen sulfide, nitrogen oxides (NOx), ammonia, hydrogen cyanide (hydrocyanic acid).

Section 11. Toxicological Information

Acute Toxicity:
LD50 Oral: Rat - 750 mg/kg
LD50 Oral: Guinea pig - 500 mg/kg
Acute skin toxicity: Estimated value - 1,100 mg/kg
Acute inhalation toxicity: Estimated value - 1.6 mg/L

Skin Corrosion/Irritation: No data available.
Serious Eye Damage/Irritation: Causes serious eye damage.
Respiratory or Skin Sensitization: No data available.
Germ Cell Mutagenicity: No data available.

Carcinogenicity: No data available.
Reproductive Toxicity: No data available.
Specific Target Organ Toxicity - Single Exposure: No data available.
Specific Target Organ Toxicity - Repeated Exposure: Causes damage to organs through prolonged or repeated exposure: Thyroid gland.
Aspiration Hazard: No data available

Section 12. Ecological Information

Toxicity:
Toxicity to fish
Static test LD50: Oncorhynchus mykiss - 65 mg/l (96 h)

Toxicity to daphnia and other aquatic invertebrates
Eco: Daphnia magna (Water flea) - 11 mg/l (48h)

Toxicity to algae
ICo: Pseudokirchneriella subcapitata - > 100 mg/l

Toxicity to Bacteria
ECw: Pseudomonas putida - 8,000 mg/l

Persistence and Degradability: No data available.
Bioaccumulative Potential: No data available.
Mobility in Soil: No data available

Other Adverse Effects: No data available

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

RID/ADR: This substance is considered to be non-hazardous for transport.
IATA: Non-Hazardous for Air Transport
IMO: Non-hazardous for Sea Transport

Section 15. Regulatory Information

Regulation (EC) No.1272/2008 and its amendments: Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008 and its amendments

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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