

## SAFETY DATA SHEET

Creation Date 24-Nov-2010

Revision Date 14-Feb-2020

**Revision Number** 2

1. Identification

**Product Name** 

Ammonium thiocyanate

Cat No. :

A10632

CAS-No Synonyms 1762-95-4 Ammonium rhodanate; Thiocyanic acid; ammonium salt

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.Details of the supplier of the safety data sheet

<u>Company</u>

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

### **Emergency Telephone Number**

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

### 2. Hazard(s) identification

Category 4

Category 4

Category 4

Category 1

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Acute dermal toxicity Acute Inhalation Toxicity - Dusts and Mists Serious Eye Damage/Eye Irritation

### Label Elements

Signal Word Danger

### **Hazard Statements**

Causes serious eye damage Harmful if swallowed, in contact with skin or if inhaled



### **Precautionary Statements**

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/sprav

Use only outdoors or in a well-ventilated area

### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

### Skin

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

### Eves

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 or doctor/physician

### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

### Storage

Store in a well-ventilated place. Keep container tightly closed

### Store locked up

### Disposal

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

Harmful to aquatic life with long lasting effects Contact with acids liberates very toxic gas

# 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Ammonium thiocyanate	1762-95-4	>95

4. First-aid measures
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.
Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention. If not breathing, give artificial respiration.
Do NOT induce vomiting. Call a physician or poison control center immediately.
Causes eye burns. Causes severe eye damage.

effects Notes to Physician	Treat symptomatically				
5. Fire-fighting measures					
Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.				
Unsuitable Extinguishing Media	No information available				
Flash Point	190 °C / 374 °F				
Method -	No information available				
Autoignition Temperature Explosion Limits	No information available				
Upper	No data available				
Lower	No data available				
Sensitivity to Mechanical Impac	t No information available				
Sensitivity to Static Discharge	No information available				
Specific Hazards Arising from the C Thermal decomposition can lead to re					

#### **Hazardous Combustion Products**

Nitrogen oxides (NOx). Sulfur oxides. Hydrogen cyanide (hydrocyanic acid). Ammonia.

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA
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NFPA Health 2	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precaution	 formation. Do not get in ey Should not be released inte		

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage
Handling	Use only under a chemical fume hood. Wear personal protective equipment/face protection. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from acids. Protect from light. Protect from moisture.

### 8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Ammonium thiocyanate		(Vacated) TWA: 5 mg/m <sup>3</sup>	IDLH: 25 mg/m <sup>3</sup>	

Legend

OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	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 and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and chemical properties

	7. Thysical and chemical properties		
Physical State	Solid		
Appearance	White		
Odor	Odorless		
Odor Threshold	No information available		
рН	5-6		
Melting Point/Range	149 °C / 300.2 °F		
Boiling Point/Range	No information available		
Flash Point	190 °C / 374 °F		
Evaporation Rate	Not applicable		
Flammability (solid,gas)	No information available		
Flammability or explosive limits			
Upper	No data available		
Lower	No data available		
Vapor Pressure	No information available		
Vapor Density	Not applicable		
Specific Gravity	1.300		
Solubility	No information available		
Partition coefficient; n-octanol/w	No data available		
Autoignition Temperature	No information available		
Decomposition Temperature	No information available		
Viscosity	Not applicable		
Molecular Formula	C H4 N2 S		
Molecular Weight	76.12		

### 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions. Hygroscopic. Light sensitive.
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Exposure to light. Exposure to moisture.
Incompatible Materials	Acids, Peroxides

Hazardous Decomposition Products Nitrogen oxides (NOx), Sulfur oxides, Hydrogen cyanide (hydrocyanic acid), Ammonia

### **Hazardous Polymerization**

Hazardous polymerization does not occur.

Hazardous Reactions

Contact with acids liberates very toxic gas.

### Acute Toxicity

### Product Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium thiocyanate	LD50 = 750 mg/kg (Rat)	Not listed	Not listed
xicologically Synergistic oducts	No information available		
layed and immediate effects	as well as chronic effects from	short and long-term exposure	<u> </u>

11. Toxicological information

Irritation

Severe eye irritant

No information available

Sensitization

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Ammonium thiocyanate	1762-95-4	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information available					
Reproductive Effect	S	No information available.					
Developmental Effe	cts	No information available.					
Teratogenicity		No information available.					
STOT - single expos STOT - repeated exp		None known None known					
Aspiration hazard		No information available					
Symptoms / effects delayed	,both acute and	d No information available					
Endocrine Disrupto	r Information						

Other Adverse Effects

The toxicological properties have not been fully investigated.

### 12. Ecological information

### **Ecotoxicity**

Do not empty into drains. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae		Freshwater Fish	Microtox	Water Flea	
Ammonium thiocyanate	Not listed		LC50: = 65 mg/L, 96h static (Oncorhynchus mykiss)	Not listed	Not listed	
Persistence and Degradability		Soluble in wa	ater Persistence is unlikely	based on information avai	lable.	
Bioaccumulation/ Accumulation		No informatic	on available.			
Mobility Will likely be r		e mobile in the environment due to its water solubility.				

	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
	14. Transport information

	14. Transport information
DOT	Not regulated
DOT TDG	Not regulated
ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

#### United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Ammonium thiocyanate	1762-95-4	Х	ACTIVE	-

#### Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Ammonium thiocyanate	1762-95-4	Х	-	217-175-6	Х	Х	Х	Х	KE-01750

### U.S. Federal Regulations

#### **SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Ammonium thiocyanate	1762-95-4	>95	1.0

#### SARA 311/312 Hazard Categories See section 2 for more information

#### **CWA (Clean Water Act)**

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Ammonium thiocyanate	X	5000 lb	Х	Х

**Clean Air Act** 

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Ammonium thiocyanate	Х		-

**OSHA** - Occupational Safety and Health Administration

Not applicable

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs	

Ammonium	thiocyanate		5000 lb		-		
California Proposition 65This product does not contain any Proposition 65 chemicals.							
U.S. State Right-to-Know	,						
Regulations							
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island		
Ammonium thiocyanate	Х	Х	Х	Х	Х		
U.S. Department of Trans							
Reportable Quantity (RQ):							
DOT Marine Pollutant	N						
DOT Severe Marine Pollut	ant N						
U.S. Department of Home Security	eland This pro	This product does not contain any DHS chemicals.					
Other International Regu	lations						
Mexico - Grade	No info	No information available					
		16. Other in	formation				
Bronarod By	Hoalth						
Prepared By		Safety and Environn ech@alfa.com	nentai Department				
	www.al	a.com					

Creation Date	24-Nov-2010
Revision Date	14-Feb-2020
Print Date	14-Feb-2020
Revision Summary	SDS authoring systems update, replaces ChemGes SDS No. 1762-95-4.

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

### **End of SDS**