

# SAFETY DATA SHEET

Creation Date 18-Sep-2009

Revision Date 29-Mar-2024

**Revision Number** 3

1. Identification

**Product Name** 

## 1-Pyrrolidinecarbodithioic acid ammonium salt

Cat No. :B23731CAS No<br/>Synonyms5108-96-3<br/>APDTC; Ammonium 1-pyrrolidinedithiocarbamate; Pyrrolidinedithiocarbamate, ammonium<br/>derivative; APDCRecommended Use<br/>Uses advised againstLaboratory chemicals.<br/>Food, drug, pesticide or biocidal product use.

### Details of the supplier of the safety data sheet

### **Company**

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

### **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

### 2. Hazard(s) identification

### **Classification**

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

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	
Combustible dust	Yes

### Label Elements

Signal Word Warning

**Hazard Statements** 

May form combustible dust concentrations in air Causes skin irritation Causes serious eye irritation May cause respiratory irritation



#### Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

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

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

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

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

### 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)

None identified

### 3. Composition/Information on Ingredients

Component	CAS No	Weight %	
1-Pyrrolidinecarbodithioic acid, ammonium salt	5108-96-3	>95	

### 4. First-aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Get medical attention. Wash off immediately with plenty of water for at least 15 minutes.
Inhalation	Remove to fresh air. Get medical attention. If not breathing, give artificial respiration.
Ingestion	Do NOT induce vomiting. Get medical attention.
Most important symptoms and effects	No information available.
Notes to Physician	Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	Not applicable
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 Chemical**

Dust can form an explosive mixture with air. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Fine dust dispersed in air may ignite.

### Hazardous Combustion Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Sulfur oxides.

### 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 Health Flammability 2 1		Instability 1	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions			dequate ventilation. Avoid contact // // // // // // // // // // // // //
<b>Environmental Precautions</b>	See Section 12 for addition		
Methods for Containment and Up	I Clean Avoid dust formation. Sweet this chemical enter the environment		containers for disposal. Do not let
	7. Handling	and storage	
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Do not ingest. If swallowed then seek immediate medical assistance. Handle under inert gas, protect from moisture. Minimize dust generation and accumulation. Protect from light.		
Storage.Keep in a dry place. Keep container tightly closed. Protect from direct sunlight. Keep nitrogen. Keep refrigerated. Incompatible Materials. Strong oxidizing agents. Stro Bases.			
8	8. Exposure controls	/ personal protection	on
Exposure Guidelines		ain any hazardous materials w jion specific regulatory bodies.	ith occupational exposure
Engineering Measures		n, especially in confined areas. se to the workstation location.	. Ensure that eyewash stations

# Eye/face ProtectionWear appropriate protective eyeglasses or chemical safety goggles as described by<br/>OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard<br/>EN166.Skin and body protectionWear appropriate protective gloves and clothing to prevent skin exposure.Respiratory ProtectionNo protective equipment is needed under normal use conditions.Hygiene MeasuresHandle in accordance with good industrial hygiene and safety practice.

### Personal Protective Equipment

### 9. Physical and chemical properties

Physical State
Appearance
Odor
Odor Threshold
рН
Melting Point/Range
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

Powder Solid Off-white No information available 6-7 5% aq.sol 150 - 155 °C / 302 - 311 °F No information available No information available Not applicable No information available

No data available No data available No information available No information available No information available No data available Not applicable No information available Not applicable C5 H12 N2 S2 164.28

### 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Hygroscopic, Light sensitive, Air sensitive.
Conditions to Avoid	Temperatures above 4°C. Exposure to air. Exposure to light. Incompatible products. Exposure to moist air or water.
Incompatible Materials Strong oxidizing agents, Strong acids, Bases	
Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2), Sulfur oxides	
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

### Acute Toxicity

Product Information Component Information

Component	LD50 Oral		LD50 Dermal	LC50	Inhalation
1-Pyrrolidinecarbodithioic acid, ammonium salt	>10850 mg/kg (Rat)		Not listed	No	t listed
oxicologically Synergistic	No information avail	ilable		<b>I</b>	
roducts elayed and immediate effects as v	vell as chronic effec	ts from short an	d long-term expo	sure	
-				<u></u>	
rritation	Irritating to eyes, re	spiratory system	and skin		
Sensitization	No information avail	ilable			
Carcinogenicity	The table below inc	licates whether ea	ach agency has list	ed any ingredient a	as a carcinoge
Component CAS No	IARC	NTP	ACGIH	OSHA	Mexico
I-Pyrrolidinecarbodithi 5108-96-3 oic acid, ammonium salt	Not listed	Not listed	Not listed	Not listed	Not listed
Iutagenic Effects	No information available	No information available			
Reproductive Effects	No information available.				
Developmental Effects	No information available.				
eratogenicity	No information available.				
STOT - single exposure STOT - repeated exposure	Respiratory system None known				
Aspiration hazard	No information available				
Symptoms / effects,both acute and lelayed	No information available				
Endocrine Disruptor Information	No information available				
Other Adverse Effects	The toxicological properties have not been fully investigated.				
	12. Ecolo	gical infor	mation		
Ecotoxicity		0			

Component		log Pow
Mobility	Will likely be mobile in the enviror	onment due to its water solubility.
<b>Bioaccumulation/ Accumulation</b>	No information available.	
Persistence and Degradability	Persistence is unlikely	
Bo not empty into drains.		

Component	log Pow
1-Pyrrolidinecarbodithioic acid, ammonium salt	1.56

# 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		
DOT	Not regulated	
DOT	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
1-Pyrrolidinecarbodithioic acid, ammonium salt	5108-96-3	Х	ACTIVE	-

### Legend:

**TSCA** US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

# TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

### International Inventories

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

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
1-Pyrrolidinecarbodithioic acid,	5108-96-3	Х	-	225-834-4	Х	Х	Х	Х	Х	-
ammonium salt										

**KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

### U.S. Federal Regulations

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable

U.S. Department of Transportation Reportable Quantity (RQ):	N
DOT Marine Pollutant DOT Severe Marine Pollutant	N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	

Mexico - Grade

No information available

### Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
1-Pyrrolidinecarbodithioic acid, ammonium salt	5108-96-3	-	-	-

Not applicable

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Pyrrolidinecarbodithioic acid, ammonium salt	5108-96-3	Not applicable	Not applicable	Not applicable	Not applicable

### Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

### Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Convention (PIC)	Basel Convention (Hazardous Waste)
1-Pyrrolidinecarbodithioic acid, ammonium salt	5108-96-3	Not applicable	Not applicable	Not applicable	Not applicable

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	16. Other information
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Creation Date Revision Date Print Date Revision Summary	18-Sep-2009 29-Mar-2024 29-Mar-2024 New emergency telephone response service provider.
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**