

# SAFETY DATA SHEET

Creation Date 08-Feb-2010

Revision Date 24-Dec-2021

Revision Number 5

	1. Identification
Product Name	Allylthiourea
Cat No. :	AC148800000; AC148800250; AC148800500; AC148801000; AC148802500; AC148805000
CAS No Synonyms	109-57-9 Thiosinamine
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.
Details of the supplier of the	safety data sheet
Company	

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **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)

Acute oral toxicity

Category 3

#### Label Elements

Signal Word Danger

Hazard Statements Toxic if swallowed



#### Precautionary Statements Prevention Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth Storage 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 %	
Thiourea, 2-propeny	-	109-57-9	>100	
	4.	First-aid measures		
General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.			
Eye Contact	In the case of advice.	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.			
Inhalation	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. Immediate medical attention is required. If not breathing, give artificial respiration.			
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.			
Most important symptoms and effects	No information available.			
Notes to Physician	Treat sympto	omatically		
	5. Fi	re-fighting measures		
Cuitable Extinguishing Madia		contrar disvide (COO) duy sharries a		

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.	
Unsuitable Extinguishing Media	No information available	
Flash Point	No information available	

Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

#### **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NOx). 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. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u> Health 3	١	Flammability 1	Instability 0	Physical hazards N/A
		6. Accidental re	elease measures	
Personal Precauti	ons	Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.		
Environmental Pre	ecautions	Should not be released ir Information.	to the environment. See Section	12 for additional Ecological

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

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Avoid dust formation. Do not breathe (dust, vapor, mist, gas). Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance. Use only under a chemical fume hood.
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.
8. E	xposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	Ensure adequate ventilation, especially in confined areas. 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

Physical State	Solid
Appearance	Beige
Odor	No information available
Odor Threshold	No information available
рН	6.5 67 g/l aq.sol
Melting Point/Range	78 °C / 172.4 °F
Boiling Point/Range	No information available
Flash Point	No information available
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	No information available
Solubility	Slightly soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	> 100°C
Viscosity	Not applicable
Molecular Formula	C4 H8 N2 S
Molecular Weight	116.18

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Excess heat.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	<b>s</b> Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Nitrogen oxides (NOx), 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
Thiourea, 2-propenyl-	200 mg/kg rat	Not listed	Not listed
Toxicologically Synergistic	No information available		

Products

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation

No information available

#### Sensitization

Carcinogenicity

No information available

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

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Thiourea, 2-propenyl-	109-57-9	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information available				
Reproductive Effect	Reproductive Effects No information available.					
Developmental Effe	cts	No information available.				
Teratogenicity		No information ava	ailable.			
STOT - single expose 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	No information available				
Other Adverse Effect	cts	The toxicological properties have not been fully investigated.				
		12. Ecolo	ogical infor	mation		
Ecotoxicity Do not empty into dra	ains					
Persistence and De	gradability	Soluble in water P	ersistence is unlike	ely based on inform	nation available.	
Bioaccumulation/ A	ccumulation	No information available.				
Mobility		Will likely be mobile in the environment due to its water solubility.				
		10 D				

13. Disposal considerations

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.

Waste Disposal Methods

14. Transport information

DOT	
UN-No	UN2811
Proper Shipping Name	TOXIC SOLIDS, ORGANIC, N.O.S.
Technical Name	(ALLYLTHIOUREA)
Hazard Class	6.1
Packing Group	III
TDG	
UN-No	UN2811
Proper Shipping Name	TOXIC SOLIDS, ORGANIC, N.O.S.
Hazard Class	6.1
Packing Group	III
IATA	
UN-No	UN2811
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.*
Hazard Class	6.1
Packing Group	III
IMDG/IMO	

UN-No	UN2811
Proper Shipping Name	Toxic solid, organic,
Hazard Class	6.1
Packing Group	III

15. Regulatory information

n.o.s.

#### United States of America Inventory

	Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Γ	Thiourea, 2-propenyl-	109-57-9	Х	ACTIVE	-

#### Legend:

TSCA US EPA (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), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Thiourea, 2-propenyl-	109-57-9	Х	-	203-683-5	Х	-		Х	Х	KE-29756

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

#### U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N 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

#### 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)
Thiourea, 2-propenyl-	109-57-9	Not applicable	Not applicable	Not applicable	Not applicable
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	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Thiourea, 2-propenyl-	109-57-9	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information				
Prepared By	Regulatory Affairs				
	Thermo Fisher Scientific				
	Email: EMSDS.RA@thermofisher.com				
Creation Date	08-Feb-2010				
Revision Date	24-Dec-2021				
Print Date	24-Dec-2021				
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).				

#### 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**