

SAFETY DATA SHEET

Revision Date 24-Dec-2021

Revision Number 4

1. Identification				
Product Name	4-Hydroxy-2-mercapto-6-methylpyrimidine			
Cat No. :	AC121300000; AC121300025; AC121300050; AC121301000; AC121305000			
CAS No Synonyms	56-04-2 6-Methyl-2-thiouracil			
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.			
Details of the supplier of the s	safety data sheet			
<u>Company</u> Fisher Scientific Company	Acros Organics			

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 4
Carcinogenicity	Category 2

Label Elements

Signal Word Warning

Hazard Statements Harmful if swallowed Suspected of causing cancer



Precautionary Statements Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Response IF exposed or concerned: Get medical attention/advice Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Storage Store locked up Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified WARNING. Cancer - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Methylthiouracil	56-04-2	98		
4. First-aid measures				
General Advice	If symptoms persist, call a physician.			
	Rinse immediately with plenty of water, also under the medical attention.	ne eyelids, for at least 15 minutes. Get		
	Wash off immediately with plenty of water for at leas call a physician.	t 15 minutes. If skin irritation persists,		
	Remove to fresh air. If not breathing, give artificial re symptoms occur.	spiration. Get medical attention if		
5	Clean mouth with water and drink afterwards plenty or symptoms occur.	of water. Get medical attention if		
Most important symptoms and effects	None reasonably foreseeable.			
	Treat symptomatically			
	5. Fire-fighting measures			

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO₂). Dry chemical. Chemical foam.

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	
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

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO₂). 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.

<u>NFPA</u>

Flammability 1	Instability 0	Physical hazards N/A
6. Accidental re	elease measures	
Ensure adequate ventilation formation.	on. Use personal protective equ	ipment as required. Avoid dust
Should not be released in Information.	to the environment. See Section	12 for additional Ecological
an Sweep up and shovel into containers for disposal.	suitable containers for disposal	. Keep in suitable, closed
7. Handling	and storage	
Wear personal protective get in eyes, on skin, or on	equipment/face protection. Ensu clothing. Avoid ingestion and in	ure adequate ventilation. Do not halation. Avoid dust formation.
xposure controls	/ personal protection	on
		th occupational exposure
Ensure adequate ventilation	on, especially in confined areas.	
Wear appropriate protection	ve gloves and clothing to prever	it skin exposure.
Follow the OSHA respirate	or regulations found in 29 CFR 1	1910.134 or European Standard
	1 6. Accidental re Ensure adequate ventilati formation. Should not be released in Information. an Sweep up and shovel into containers for disposal. 7. Handling Wear personal protective get in eyes, on skin, or on Keep in a dry, cool and we light. Incompatible Materi Xposure controls This product does not cor limitsestablished by the re Ensure adequate ventilati Wear appropriate protecti OSHA's eye and face pro EN166. Wear appropriate protecti	1 0 6. Accidental release measures Ensure adequate ventilation. Use personal protective equiformation. Should not be released into the environment. See Section Information. an Sweep up and shovel into suitable containers for disposal containers for disposal. 7. Handling and storage Wear personal protective equipment/face protection. Ensuget in eyes, on skin, or on clothing. Avoid ingestion and in Keep in a dry, cool and well-ventilated place. Keep contailight. Incompatible Materials. Strong oxidizing agents. St Xposure controls / personal protection This product does not contain any hazardous materials wilimitsestablished by the region specific regulatory bodies. Ensure adequate ventilation, especially in confined areas. Wear appropriate protective eyeglasses or chemical safet OSHA's eye and face protection regulations in 29 CFR 19

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

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Physical State	Powder Solid
Appearance	Off-white
Odor	Odorless
Odor Threshold	No information available
рН	7
Melting Point/Range	330 °C / 626 °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	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	326 °C
Viscosity	Not applicable
Molecular Formula	C5 H6 N2 O S
Molecular Weight	142.18

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable. Light sensitive.
Conditions to Avoid	Exposure to light. Incompatible products.
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong bases
Hazardous Decomposition Product	s Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO ₂), Sulfur oxides
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methylthiouracil	LD50 = 1500 mg/kg (Rat)	Not listed	Not listed
oxicologically Synergistic Products	No information available		
elayed and immediate effects	as well as chronic effects from sh	ort and long-term exposure	

Irritation

No information available

Sensitization

No information available

Carcinogenicity

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

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Methylthiouracil	56-04-2	Group 2B	Not listed	Not listed	Х	Not listed
IARC (International	Agency for Res	earch on Cancer,	Group 1 - Group 2A	ernational Agency for Carcinogenic to Hur - Probably Carcinog - Possibly Carcinog	enic to Humans	
Iutagenic Effects	No information available					
Reproductive Effects		No information	n available.			
Developmental Effect	S	No information	n available.			
Feratogenicity		No information available.				
STOT - single exposu STOT - repeated expo		None known None known				
Aspiration hazard	ration hazard No information available					
Symptoms / effects,t delayed	ymptoms / effects,both acute and No information available elayed					
Endocrine Disruptor	Information	No information	n available			
Other Adverse Effect	S	The toxicologi	cal properties have n	ot been fully inves	tigated.	
		12. Ec	cological info	rmation		
<u>Ecotoxicity</u> Do not flush into surfac	e water or sani	tary sewer syste	em. Do not allow mat	erial to contaminat	e ground water syst	em.
Persistence and Deg	adability	Insoluble in wa	ater			
Bioaccumulation/ Ac	cumulation	No information available.				
Mobility	Is not likely mobile in the environment due its low water solubility.					
		13. Dis	sposal consid	lerations		
Waste Disposal Meth	ods	hazardous wa	te generators must de ste. Chemical waste dous waste regulatio	generators must a	also consult local, re	gional, and
Co	omponent		RCRA - U Serie	es Wastes	RCRA - P Ser	ies Wastes

	14. Transport information	
DOT	Not regulated	
<u>_TDG</u>	Not regulated	
<u>IATA</u>	Not regulated	
IMDG/IMO	Not regulated	
	15. Regulatory information	

United States of America Inventory

	Component	CAS No	TSCA	TSCA Inventory notification -	TSCA - EPA Regulatory
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			Active-Inactive	Flags
Methylthiouracil	56-04-2	Х	ACTIVE	S

Legend:

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

X - Listed

'-' - Not Listed

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule.

TSCA 12(b) - Notices of Export

Component	CAS No	TSCA 12(b) - Notices of Export	
Methylthiouracil	56-04-2	Section 5	

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
Methylthiouracil	56-04-2	-	Х	200-252-3	Х	Х	Х	Х	Х	-

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
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	
Methylthiouracil	10 lb	-	

California Proposition 65

This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category
Methylthiouracil	56-04-2	Carcinogen	2 µg/day	Carcinogen
U.S. State Right-to-Know	,			

Regulations

[Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ī	Methylthiouracil	Х	-	Х	Х	Х

U.S. Department of Transportation

Reportable Quantity (RQ):	Y
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

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)
Methylthiouracil	56-04-2	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)
Methylthiouracil	56-04-2	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date Print Date Revision Summary	24-Dec-2021 24-Dec-2021 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