

SAFETY DATA SHEET

Creation Date 05-Feb-2015

Revision Date 24-Dec-2021

Revision Number 5

Product Name	Thymidine
Cat No. :	AC226740000; AC226740010; AC226740050; AC226740250; AC226741000
CAS No Synonyms	50-89-5 (1-ó2-Deoxy-\$3-D-ribofuranosyl!-5-methyluracil)
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.
Details of the supplier of the	safety data sheet

<u>Company</u> 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

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

Hazard Statements

Precautionary Statements <u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition/Information on Ingredients							
Component Thymidine		CAS No 50-89-5	Weight %				
			200				
	4.	First-aid measures					
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Ge medical attention.							
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.						
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention.						
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 (CO2), dry chemical, alcohol-resistant 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).

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> Health 2	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions	Use personal protective eq formation. Avoid contact w		dequate ventilation. Avoid dust
Environmental Precautions	Avoid release to the enviro	nment. See Section 12 for add	litional Ecological Information.
Methods for Containment and C	Ican Sween up and shovel into	suitable containers for disposa	Avoid dust formation

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. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation.						
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	None under normal use conditions.						
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	No protective equipment is needed under normal use conditions.						
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.						

pHNo infoMelting Point/Range187 -Boiling Point/RangeNo infoFlash PointNo infoEvaporation RateNot appFlammability (solid,gas)No infoFlammability or explosive limits	ss rmation available rmation available 189 °C / 368.6 - 372.2 °F
OdorOdorOdor ThresholdNo infopHNo infoMelting Point/Range187 -Boiling Point/RangeNo infoFlash PointNo infoEvaporation RateNot appFlammability (solid,gas)No infoFlammability or explosive limitsNo	rmation available rmation available 189 °C / 368.6 - 372.2 °F
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Linner No dat	
	a available
Lower No data	a available
Vapor Pressure No info	rmation available
Vapor Density Not ap	plicable
Specific Gravity No info	rmation available
Solubility Soluble)
Partition coefficient; n-octanol/water No data	a available
Autoignition Temperature No info	rmation available
	rmation available
	plicable
Molecular Formula C10 H ²	14 N2 O5
Molecular Weight 242.23	

10. Stability and reactivity

Reactive H	lazard
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None known, based on information available

Stability

Stable under normal conditions.

Conditions to Avoid	Avo	Avoid dust formation. Incompatible products. Excess heat.					
ncompatible Materials Strong oxidizing agents							
Hazardous Decomposition Pro	ducts Nitr	ogen oxides (N	IOx), Carboi	n mono	xide (CO), Carbon	dioxide (CO ₂)	
Hazardous Polymerization	No	information ava	ailable.				
Hazardous Reactions	Nor	ne under norma	al processing	g.			
	1	1. Toxico	ological	l infc	rmation		
Acute Toxicity							
Product Information Component Information	No	acute toxicity ir	nformation is	s availa	ble for this product		
Component		LD50 Oral			.D50 Dermal	LC50	Inhalation
Thymidine		Not listed		LD50 >	2000 mg/kg (Rat)	No	ot listed
Toxicologically Synergistic Products	No	information ava	ailable				
Delayed and immediate effects	as well a	s chronic effe	cts from sh	hort and	d long-term expos	sure	
Irritation	Irrita	ating to eyes, re	espiratory s	system a	and skin		
Sensitization	No	No information available					
Carcinogenicity	The	The table below indicates whether each agency has listed any ingredient as a carcinogen.					
Component CAS N	0	IARC	NTP		ACGIH	OSHA	Mexico
Thymidine 50-89-5		Not listed	Not liste	ed	Not listed	Not listed	Not listed
Mutagenic Effects		No information available					
Reproductive Effects		No information available.					
Developmental Effects	No	No information available.					
Teratogenicity	No	No information available.					
STOT - single exposure STOT - repeated exposure		None known None known					
Aspiration hazard	No	No information available					
Symptoms / effects,both acute delayed	e and No	No information available					
Endocrine Disruptor Information	on No	No information available					
Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTEC complete information.					entry in RTECS for		
		12. Ecolo	ogical i	nform	mation		
Ecotoxicity Do not empty into drains.							

Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.
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Bioaccumulation/ Accumulation No information available.

Mobility Will likely be 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				
DOT	Not regulated				
<u>TDG</u>	Not regulated				
IATA_	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
Thymidine	50-89-5	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
Thymidine	50-89-5	Х	-	200-070-4	-	Х		Х	Х	KE-09611

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	Not applicable		
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): 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)
Thymidine	50-89-5	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)
Thymidine	50-89-5	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	05-Feb-2015			
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