

SAFETY DATA SHEET

Creation Date 05-Feb-2015

Revision Date 26-Mar-2024

Revision Number 3

1. Identification

(1-ó2-Deoxy-\$3-D-ribofuranosyl!-5-methyluracil)

Product Name	Thymidine
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Cat No. :

Synonyms

CAS No

A11493

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>

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

<u>Classification</u> 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 %				
4. First-aid measures							
Eye Contact		iately with plenty of water, also under	the eyelids, for at least 15 minutes. Get				
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	No information available.						
effects Notes to Physician	Treat symptomatically						
	5. Fi	re-fighting measures					
Suitable Extinguishing Media	Water spray,	carbon dioxide (CO2), dry chemical, a	alcohol-resistant foam.				

No information available
No information available No information available
No information available
No data available
No data available
No information available 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 <u>Personal Protective Equipment</u>	None under normal use conditions.
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.
Recommended Filter type:	Particle filter.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Ph	nysical and chemical properties
Physical State	Powder Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	187 - 189 °C / 368.6 - 372.2 °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	Soluble
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C10 H14 N2 O5
Molecular Weight	242.23
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10. Stability and reactivity

Reactive Hazard

None known, based on information available

Stability Conditions to Avoid Incompatible Materials Hazardous Decomposition Product Hazardous Polymerization Hazardous Reactions Acute Toxicity Product Information Component Information Thymidine	Stable under normal con Avoid dust formation. Inc Strong oxidizing agents ucts Nitrogen oxides (NOx), C No information available. None under normal proce <u>11. Toxicolog</u> No acute toxicity informa <u>LD50 Oral</u> Not listed	ompatible p Carbon mon essing. ical info tion is avail	oxide (CO), Carbon o Drmation able for this product					
Incompatible Materials Hazardous Decomposition Product Hazardous Polymerization Hazardous Reactions Acute Toxicity Product Information Component Information Thymidine Toxicologically Synergistic	Strong oxidizing agents ucts Nitrogen oxides (NOx), C No information available. None under normal proce <u>11. Toxicolog</u> No acute toxicity informa LD50 Oral	erbon mon essing. ical info tion is avail	oxide (CO), Carbon o Ormation able for this product					
Hazardous Decomposition Product Information Component Information Thymidine Toxicologically Synergistic	ucts Nitrogen oxides (NOx), C No information available. None under normal proce <u>11. Toxicolog</u> No acute toxicity informa LD50 Oral	essing. ical info tion is avail	ormation able for this product	dioxide (CO2)				
Hazardous Polymerization Hazardous Reactions Acute Toxicity Product Information Component Information Thymidine Toxicologically Synergistic	No information available. None under normal proce <u>11. Toxicolog</u> No acute toxicity informa LD50 Oral	essing. ical info tion is avail	ormation able for this product	dioxide (CO2)				
Hazardous Reactions Acute Toxicity Product Information Component Information Thymidine Toxicologically Synergistic	None under normal proce <u>11. Toxicolog</u> No acute toxicity informa <u>LD50 Oral</u>	essing. ical info tion is avail	able for this product					
Hazardous Reactions Acute Toxicity Product Information Component Information Thymidine Toxicologically Synergistic	None under normal proce <u>11. Toxicolog</u> No acute toxicity informa <u>LD50 Oral</u>	essing. ical info tion is avail	able for this product					
Product Information Component Information Component Thymidine	No acute toxicity informa	tion is avail	able for this product					
Product Information Component Information Component Thymidine	No acute toxicity informa	tion is avail	able for this product					
Product Information Component Information Component Thymidine	LD50 Oral		-					
Component Thymidine Foxicologically Synergistic								
Foxicologically Synergistic	Not listed		LD50 Dermal	LC50 I	Inhalation			
		LDSU	> 2000 mg/kg (Rat)	No	t listed			
Products Delayed and immediate effects a	No information available	om short ar	nd long-term exposu	Jre				
rritation Sensitization	Irritating to eyes, respirat No information available	Irritating to eyes, respiratory system and skin No information available						
Carcinogenicity	The table below indicates	The table below indicates whether each agency has listed any ingredient as a carcinogen.						
Component CAS No	IARC	NTP ACGIH		OSHA	Mexico			
Thymidine 50-89-5	Not listed N	ot listed	Not listed	Not listed	Not listed			
lutagenic Effects	No information available							
Reproductive Effects No information available.								
Developmental Effects	No information available.	No information available.						
Feratogenicity	No information available.							
STOT - single exposure STOT - repeated exposure								
Aspiration hazard	No information available							
Symptoms / effects,both acute a delayed	and No information available							
Endocrine Disruptor Information	No information available							
Other Adverse Effects	The toxicological propert complete information.	ies have no	t been fully investigat	ted. See actual e	ntry in RTECS f			

12. Ecological information

Ecotoxicity Do not empty into drains.

Persistence and Degradability

Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility

Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Thymidine	0.3
	k.

	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 TDG IATA	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 - 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
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

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

OSHA - Occupational Safety and	Not applicable
Health Administration	

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): 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

Not applicable

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)
Thymidine	50-89-5	-	-	-

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

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	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Thymidine	50-89-5	Not applicable	Not applicable	Not applicable	Not applicable

	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	05-Feb-2015 26-Mar-2024 26-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