

SAFETY DATA SHEET

United States

Section 1. Identification Product name

2'-Deoxythymidine 5'-Triphosphate, Sodium, (dTTP), 250 mg

Catalogue Number

27188004

Chemical name Other means of identification Product type thymidine 5'-(tetrahydrogen triphosphate) thymidine 5'-(tetrahydrogen triphosphate) Solid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses Analytical chemistry. Laboratory chemicals Scientific research and development

Industrial applications: Analytical chemistry. Laboratory use. Scientific research and development.

Supplier

Cytiva Amersham Place Little Chalfont Buckinghamshire HP7 9NA United Kingdom +44 0800 515 313 Cytiva USA 100 Results Way Marlborough, MA 01752 1-800-526-3593

In case of emergency

INFOTRAC - 24 Hour number: 1-800-535-5053 Outside of the United States, call 24 Hour number: 001-352-323-3500 (Call Collect)

Section 2. Hazards identification

OSHA/HCS status	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	Not classified.
GHS label elements	
Signal word	No signal word.
Hazard statements	No known significant effects or critical hazards.
Precautionary statements	
Prevention	Not applicable.
Response	Not applicable.
Storage	Not applicable.
Disposal	Not applicable.
Hazards not otherwise classified	None known.



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Section 3. Composition/information on ingredients

Substance/mixture Chemical name Other means of identification	Substance thymidine 5'-(tetrahydrogen triphosphate) thymidine 5'-(tetrahydrogen triphosphate)		
CAS number/other identifiers CAS number	365-08-2		
Ingredient name thymidine 5'-(tetrahydrogen triphosphate)		% 100	CAS number 365-08-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check	
Inhalation	for and remove any contact lenses. Get medical attention if irritation occurs. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.	
Ingestion	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.	
Most important symptoms/effect	s, acute and delayed	
Potential acute health effects		
Eye contact	No known significant effects or critical hazards.	
Inhalation	No known significant effects or critical hazards.	
Skin contact	No known significant effects or critical hazards.	
Ingestion	No known significant effects or critical hazards.	
Over-exposure signs/symptoms	<u>§</u>	
Eye contact	No specific data.	
Inhalation	No specific data.	
Skin contact	No specific data.	
Ingestion	No specific data.	
Indication of immediate medical	attention and special treatment needed, if necessary	
Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	
Specific treatments	No specific treatment.	
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.	
See toxicological information (Section 11)		
Section 5. Fire-fighting m	neasures	

Extinguishing media

<u></u>	
Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	No specific fire or explosion hazard.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides metal oxide/oxides
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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Special protective equipment	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus
for fire-fighters	(SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.	
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	
Methods and materials for containment and cleaning up		
Small spill	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.	
Large spill	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.	

Section 7. Handling and storage

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Precautions for safe handling	
Protective measures	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits thymidine 5'-(tetrahydrogen tripho	sphate) None.
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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Section 9. Physical and chemical properties

Appearance		
Physical state	Solid.	
Color	White.	
Odor	Odorless.	
Odor threshold	Not available.	
рН	Not available.	
Melting point/freezing point	Not available.	
Boiling point, initial boiling point, and boiling range	Not available.	
Flash point	Not applicable.	
Burning time	Not available.	
Burning rate	Not available.	
Evaporation rate	Not available.	
Flammability	Not available.	
Lower and upper explosive (flammable) limits	Not applicable.	
Vapor pressure	Not available.	
Relative vapor density	Not applicable.	
Relative density	Not available.	
Solubility(ies)		
Me	edia	Result
	ld water t water	Easily soluble Easily soluble
Solubility in water	Not available.	
Partition coefficient: n-octanol/ water	Not available.	
Auto-ignition temperature	Not applicable.	
Decomposition temperature	Not available.	
SADT	Not available.	
Viscosity	Not applicable.	
Flow time (ISO 2431)	Not available.	
Molecular weight	584.1 g/mole	
Particle characteristics		
Median particle size	Not available.	

Section 10. Stability and reactivity

Reactivity Chemical stability Possibility of hazardous	No specific test data related to reactivity available for this product or its ingredients. The product is stable. Under normal conditions of storage and use, hazardous reactions will not occur.
reactions Conditions to avoid Incompatible materials	No specific data.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity Not available.

Irritation/Corrosion Not available.

Sensitization Not available.

<u>Mutagenicity</u>

Not available.

Carcinogenicity Not available.

Article Number :



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Reproductive toxicity Not available.	
<u>Teratogenicity</u> Not available.	
Specific target organ toxicity (s Not available.	ingle exposure)
Specific target organ toxicity (r Not available.	epeated exposure)
Aspiration hazard Not available.	
Information on the likely routes of exposure	Routes of entry anticipated: Oral, Dermal, Inhalation.
Potential acute health effects	
Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin contact Ingestion	No known significant effects or critical hazards. No known significant effects or critical hazards.
•	I, chemical and toxicological characteristics
	No specific data.
Eye contact Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.
Delayed and immediate effects a	nd also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	Not available.
Potential delayed effects	Not available.
Long term exposure	
Potential immediate effects	Not available.
Potential delayed effects	Not available.
Potential chronic health effects Not available.	
General	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity Reproductive toxicity	No known significant effects or critical hazards. No known significant effects or critical hazards.
Numerical measures of toxicity	No known significant enects of childa hazards.
Acute toxicity estimates	
N/A	
Section 12. Ecological in	formation
Toxicity	
Not available.	
Persistence and degradability	
Not available.	
Bioaccumulative potential	
Not available.	
Mahility in anil	

Mobility in soil

 Soil/water partition coefficient (K
 Not available.

 oc)
 Other adverse effects

 No known significant effects or critical hazards.



Section 13. Disposal considerations

	Disposal methods	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
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Section 14. Transport information

-	DOT Classification	TDG Classification	Mexico Classification
UN number	Not regulated.	Not regulated.	Not available.
UN proper shipping name	-	-	Not available.
Transport hazard class(es)	-	-	Not available.
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-
	ADR/RID	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-
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Special precautions for user		ses: always transport in closed cor nsporting the product know what to	
	spillage.	insporting the product know what to	do in the event of an accident of
Transport in bulk according to	Not available.		
IMO instruments			
	shinning name	Not available	
Proper		Not available.	
		Not available.	
Proper			
Proper Section 15. Regulatory	information		
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New York	This material is not listed.	
New Jersey	This material is not listed.	
Pennsylvania	This material is not listed.	
<u>California Prop. 65</u>		
This product does not requir	re a Safe Harbor warning under California Prop. 65.	
International regulations		
Chemical Weapon Convention	List Schedules I, II & III Chemicals	
Not listed.		
Montreal Protocol		
Not listed.		
Stockholm Convention on Pers	sistent Organic Pollutants	
Not listed.		
Rotterdam Convention on Prior	r Informed Consent (PIC)	
Not listed.		
UNECE Aarhus Protocol on PO	DPs and Heavy Metals	
Not listed.		
Inventory list		
United States	Not determined.	
	Not determined.	
Canada inventory	Not determined.	
Canada inventory Section 16. Other inform		
Section 16. Other inform	nation	
	nation	
Section 16. Other inform	nation	
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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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