

# SAFETY DATA SHEET

United States		
Section 1. Identification		
Product name	2'-Deoxyguanosine 5'-Triphosphate, Sodium,	
	(dGTP), 250 mg	
Catalogue Number	27187004	9 0 2 7 1 8 7 0 0 4
Chemical name	2'-deoxyguanosine 5'-(tetrahydrogen t	riphosphate)
Other means of identification		n triphosphate); Guanosine 5'-(tetrahydrogen triphosphate), pxo-1H-purin-9-yl)-3-hydroxyoxolan-2-yl]methoxy- gen phosphate
Product type	Solid.	
Relevant identified uses of the s	ubstance or mixture and uses advise	d against
Identified uses		
Analytical chemistry. Laboratory chemicals Scientific research and developm Industrial applications: Analytical	ient chemistry. Laboratory use. Scientific res	search and development.
Supplier	Cytiva Amersham Place	Cytiva USA 100 Results Way
	Little Chalfont	Marlborough, MA 01752
	Buckinghamshire	1-800-526-3593
	HP7 9NA United Kingdom	
	+44 0800 515 313	
In case of emergency	INFOTRAC - 24 Hour number: 1-800- Outside of the United States, call 24 H	535-5053 lour number: 001-352-323-3500 (Call Collect)
Section 2. Hazards ident	ification	
		and us hother OCUA lighted Communication Chandrad (20
OSHA/HCS status	CFR 1910.1200), this SDS contains va	azardous by the OSHA Hazard Communication Standard (29 aluable information critical to the safe handling and proper use tained and available for employees and other users of this
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	Substance		
Chemical name	2'-deoxyguanosine 5'-(tetrahydrogen triphosphate)		
Other means of identification	Guanosine, 2'-deoxy-, 5'-(tetrahydrogen triphosphate); Guanosine 5'-(tetrahydrogen triphosphate), 2'-deoxy-; [[(2R,3S,5R)-5-(2-amino-6-oxo-1H-purin-9-yl)-3-hydroxyoxolan-2-yl]methoxy- hydroxyphosphoryl] phosphono hydrogen phosphate		
CAS number/other identifiers			
CAS number	2564-35-4		
Ingredient name		%	CAS number
2'-deoxyguanosine 5'-(tetrahydrog	en triphosphate)	100	2564-35-4

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 for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	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/effects, acute and delayed

MOSt important symptoms/end	ects, acute and delayed
Potential acute health effects	<u>S</u>
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/sympto	oms
Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.
Indication of immediate medic	al 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 measures

#### Extinguishing media

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 conta	inment 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

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	Do not store above the following temperature: -20°C (-4°F). 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 2'-deoxyguanosine 5'-(tetrahydro	gen triphosphate) 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

<u>Appearance</u>		
Physical state	Solid.	
Color	Not available.	
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 Solubility(ies)	Not available.	
	ledia	Result
=	old water ot 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	609.2 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.

Mutagenicity

Not available.

Carcinogenicity Not available.

Article Number :



#### **Reproductive toxicity** Not available. **Teratogenicity** Not available. Specific target organ toxicity (single exposure) Not available. Specific target organ toxicity (repeated exposure) Not available. Aspiration hazard Not available. Information on the likely routes Routes of entry anticipated: Oral, Dermal, Inhalation. of exposure 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. Symptoms related to the physical, chemical and toxicological characteristics Eve contact No specific data. Inhalation No specific data. Skin contact No specific data. Ingestion No specific data. Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure Not available Potential immediate effects Not available Potential delayed effects 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. No known significant effects or critical hazards. Carcinogenicity No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. **Reproductive toxicity** Numerical measures of toxicity Acute toxicity estimates N/A Section 12. Ecological information **Toxicity** Not available Persistence and degradability Not available. **Bioaccumulative potential** Not available.

oc)

Mobility in soil

Other adverse effects

Soil/water partition coefficient (K

Article Number :

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Not available.

No known significant effects or critical hazards.

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## Section 13. Disposal considerations

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 th 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 containes 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

Product is not regulated as dangerous goods for transport.

## Section 15. Regulatory information

#### **U.S. Federal regulations** TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Not listed
Clean Air Act Section 602 Class I Substances	Not listed
Clean Air Act Section 602 Class II Substances	Not listed
DEA List I Chemicals (Precursor Chemicals)	Not listed
DEA List II Chemicals (Essential Chemicals)	Not listed

## SARA 302/304

Composition/information on ingred	lients

No products were found.

### SARA 311/312

Not applicable. Classification

#### **Composition/information on ingredients**

No products were found.

#### State regulations

Massachusetts	This material is not listed.
New York	This material is not listed.
New Jersey	This material is not listed.
Pennsylvania	This material is not listed.

#### California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

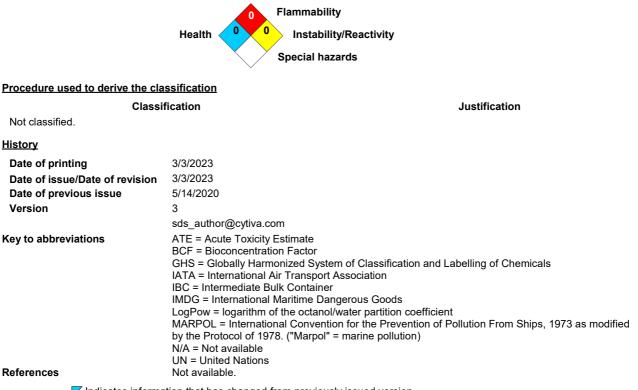
#### International regulations

Chemical Weapon Convention I	<u>ist Schedules I, II &amp; III Chemicals</u>	
Not listed.		
Montreal Protocol		
Not listed.		
Stockholm Convention on Persi	istent Organic Pollutants	
Not listed.		
Rotterdam Convention on Prior Informed Consent (PIC)		
Not listed.		
UNECE Aarhus Protocol on POPs and Heavy Metals		
Not listed.		
Inventory list		
United States	Not determined.	
Canada inventory	Not determined.	



## Section 16. Other information

#### National Fire Protection Association (U.S.A.)



Indicates information that has changed from previously issued version.

#### 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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