

2'-DEOXYTHYMIDINE-5'-TRIPHOSPHATE TRISODIUM SALT

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Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name: 2'-DEOXYTHYMIDINE-5'-TRIPHOSPHATE TRISODIUM SALT

CAS number: 27821-54-1

Product code: BID6623

Synonyms: DTTP-NA3

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

#### 1.3. Details of the supplier of the safety data sheet

Company name: Apollo Scientific Ltd

	Units 3 & 4
	Parkway
	Denton
	Manchester
	M34 3SG
	UK
Tel:	0161 337 9971
Fax:	0161 336 6932
Email:	david.tideswell@apolloscientific.co.uk

1.4. Emergency telephone number

#### Section 2: Hazards identification

# 2.1. Classification of the substance or mixture Classification under CHIP: Xi: R36/37/38 Classification under CLP: STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315 Most important adverse effects: Irritating to eyes, respiratory system and skin.

#### 2.2. Label elements

Label eleme	ents under	CLP:
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Hazard statements: H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Signal words: Warning

Hazard pictograms: GHS07: Exclamation mark



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Precautionary statements: P261: Avoid breathing dust.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Label elements under CHIP:

Hazard symbols: Irritant.



**Risk phrases:** R36/37/38: Irritating to eyes, respiratory system and skin.

2.3. Other hazards

PBT: This substance is not identified as a PBT substance.

#### Section 3: Composition/information on ingredients

#### 3.1. Substances

Chemical identity: 2'-DEOXYTHYMIDINE-5'-TRIPHOSPHATE TRISODIUM SALT

Section 4: First aid measures

#### 4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

#### 4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

#### 4.3. Indication of any immediate medical attention and special treatment needed

### Section 5: Fire-fighting measures

#### 5.1. Extinguishing media

**Extinguishing media:** Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the surrounding fire should be used.

#### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes. Carbon oxides. Nitrogen oxides (NOx). Oxides of phosphorus Sodium oxides.

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5.3. Advice for fire-fighters

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# Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Section 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not create dust. 6.2. Environmental precautions Environmental precautions: Do not discharge into drains or rivers. 6.3. Methods and material for containment and cleaning up **Clean-up procedures:** Transfer to a closable, labelled salvage container for disposal by an appropriate method. 6.4. Reference to other sections Section 7: Handling and storage 7.1. Precautions for safe handling Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of dust in the air. Only use in fume hood. 7.2. Conditions for safe storage, including any incompatibilities Storage conditions: Keep container tightly closed. Store at -20 °C Suitable packaging: Must only be kept in original packaging. 7.3. Specific end use(s) Specific end use(s): No data available. Section 8: Exposure controls/personal protection 8.1. Control parameters Workplace exposure limits: Not applicable. 8.2. Exposure controls Engineering measures: Ensure there is sufficient ventilation of the area. Respiratory protection: Self-contained breathing apparatus must be available in case of emergency. Respiratory protective device with particle filter. Hand protection: Protective gloves. Eye protection: Safety glasses. Ensure eye bath is to hand. [cont...]

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#### Skin protection: Protective clothing.

#### Section 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

State: Solid

9.2. Other information

Other information: Not applicable.

# Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

#### Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

#### 10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides

(NOx). Sodium oxides.

#### Section 11: Toxicological information

#### 11.1. Information on toxicological effects

#### Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data
STOT-single exposure	INH	Based on test data

## Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

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#### Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: Not applicable.

#### 12.2. Persistence and degradability

Persistence and degradability: No data available.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

#### 12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: No data available.

#### Section 13: Disposal considerations

#### 13.1. Waste treatment methods

Disposal operations:	s: Transfer to a suitable container and arrange for collection by specialised disposal		
	company. MATERIAL SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL,		
	STATE AND FEDERAL REGULATIONS		
Disposal of packaging:	Dispose of as special waste in compliance with local and national regulations Observe		
	all federal, state and local environmental regulations.		
NB:	The user's attention is drawn to the possible existence of regional or national		
	regulations regarding disposal.		

#### Section 14: Transport information

14.1. UN number

UN number: UNnone

#### 14.2. UN proper shipping name

Shipping name: NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.

14.3. Transport hazard class(es)

#### 14.4. Packing group

#### 14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

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14.6. Special precautions for user					
Section 15: Regulatory information					
15.1. Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture				
15.2. Chemical Safety Assessm	ient				
Chemical safety assessment:	A chemical safety assessment has not been carried out for the substance or the mixture				
	by the supplier.				
Section 16: Other information					
Other information					
Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.				
	* Data predicted using computational software. Toxtree - Toxic Hazard Estimation by				
	decision tree approach. http://ecb.jrc.ec.europa.eu/qsar/qsar-tools/index.php?				
	c=TOXTREE				
	~ Data predicted using computatioanl software ACD/ToxSuite v 2.95.1 Copyright 1994-				
	2009 ACD/labs, Copyright 2001-2009 Pharma Algorithms, Inc, Advanced Chemistry				
	Development, Inc (ACD/Labs). http://www.acdlabs.com/products/pc_admet/tox/tox/				
Phrases used in s.2 and 3:	H315: Causes skin irritation.				
	H319: Causes serious eye irritation.				
	H335: May cause respiratory irritation.				
	R36/37/38: Irritating to eyes, respiratory system and skin.				
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