

# Safety Data Sheet

Australia

## Section 1. Identification

**Product name** ddCTP, 100 mM solution

**Catalogue Number** 27-2061-01



9 0 2 7 2 0 6 1 0 1

**Product type** Liquid.

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

#### **Identified uses**

- ☒ Analytical chemistry.
- ☒ Use in laboratories
- ☒ Scientific research and development

### Company details

#### **Manufacturer**

Cytiva  
Amersham Place  
Little Chalfont  
Buckinghamshire  
HP7 9NA United Kingdom  
+44 0800 515 313

#### **Supplier**

Cytiva Australia  
Level 11, 32 Phillip Street  
Parramatta  
Sydney 2150  
New South Wales  
Australia  
tfn: 18 0015 0522

**Emergency telephone number** 000 and +61 2 9846 4000

## Section 2. Hazard(s) identification

**Classification of the substance or mixture** ☒ Not classified.

- ☒ Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 9.9%
- ☒ Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 9.9%
- ☒ Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 9.9%

### 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.

**Supplemental label elements** ☒ Not applicable.

**Other hazards which do not result in classification** ☒ None known.



9 5 2 7 2 0 6 1 0 1

### Section 3. Composition and ingredient information

Substance/mixture	Mixture
Other means of identification	Not available.

#### CAS number/other identifiers

CAS number	Not applicable.
EC number	Mixture.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### 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.
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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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

##### 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

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	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
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. Firefighting 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 In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products No specific data.

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.

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (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 spilt material. Put on appropriate personal protective equipment.
- For emergency responders** ☒ If specialised 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 spilt 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 material for containment and cleaning up

- Small spill** ☒ Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** ☒ Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls and personal protection

### Control parameters

#### Occupational exposure limits

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.



<b>Respiratory protection</b>	<input checked="" type="checkbox"/> 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

<b>Physical state</b>	Liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Odourless.
<b>Flammability (solid, gas)</b>	Not available.
<b>Partition coefficient: n-octanol/ water</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Flow time (ISO 2431)</b>	<input checked="" type="checkbox"/> Not available.

### Aerosol product

<b>Flame duration</b>	Not applicable.
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## Section 10. Stability and reactivity

<b>Reactivity</b>	<input checked="" type="checkbox"/> No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	<input checked="" type="checkbox"/> The product is stable.
<b>Possibility of hazardous reactions</b>	<input checked="" type="checkbox"/> Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	<input checked="" type="checkbox"/> No specific data.
<b>Incompatible materials</b>	<input checked="" type="checkbox"/> No specific data.
<b>Hazardous decomposition products</b>	<input checked="" type="checkbox"/> 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.

#### Sensitisation

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### 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.

<b>Information on likely routes of exposure</b>	Routes of entry anticipated: Oral, Dermal, Inhalation.
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### Potential acute health effects

<b>Eye contact</b>	<input checked="" type="checkbox"/> No known significant effects or critical hazards.
<b>Inhalation</b>	<input checked="" type="checkbox"/> No known significant effects or critical hazards.



<b>Skin contact</b>	<input checked="" type="checkbox"/> No known significant effects or critical hazards.
<b>Ingestion</b>	<input checked="" type="checkbox"/> No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

<b>Eye contact</b>	<input checked="" type="checkbox"/> No specific data.
<b>Inhalation</b>	<input checked="" type="checkbox"/> No specific data.
<b>Skin contact</b>	<input checked="" type="checkbox"/> No specific data.
<b>Ingestion</b>	<input checked="" type="checkbox"/> No specific data.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Short term exposure**

<b>Potential immediate effects</b>	Not available.
<b>Potential delayed effects</b>	Not available.

**Long term exposure**

<b>Potential immediate effects</b>	Not available.
<b>Potential delayed effects</b>	Not available.

**Potential chronic health effects**

Not available.

<b>General</b>	<input checked="" type="checkbox"/> No known significant effects or critical hazards.
<b>Carcinogenicity</b>	<input checked="" type="checkbox"/> No known significant effects or critical hazards.
<b>Mutagenicity</b>	<input checked="" type="checkbox"/> No known significant effects or critical hazards.
<b>Teratogenicity</b>	<input checked="" type="checkbox"/> No known significant effects or critical hazards.
<b>Developmental effects</b>	<input checked="" type="checkbox"/> No known significant effects or critical hazards.
<b>Fertility effects</b>	<input checked="" type="checkbox"/> No known significant effects or critical hazards.

**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.

**Mobility in soil**

**Soil/water partition coefficient ( $K_{oc}$ )** Not available.

<b>Other adverse effects</b>	<input checked="" type="checkbox"/> No known significant effects or critical hazards.
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**Section 13. Disposal considerations**

<b>Disposal methods</b>	<input checked="" type="checkbox"/> The generation of waste should be avoided or minimised 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 spilt material and runoff and contact with soil, waterways, drains and sewers.
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## Section 14. Transport information

	ADG	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
Proper shipping name	-	-	-	-
Class	-	-	-	-
Label				
PG	-	-	-	-
Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

**Special precautions for user**      **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of Marpol and the IBC Code**      Not available.

## Section 15. Regulatory information

**Standard Uniform Schedule of Medicine and Poisons**

Not regulated.

**Model Work Health and Safety Regulations - Scheduled Substances**

No listed substance

**International regulations****Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

**Montreal Protocol (Annexes A, B, C, E)**

Not listed.

**Stockholm Convention on Persistent 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**

Australia	Not determined.
Europe	Not determined.
United States	Not determined.
Canada inventory	Not determined.
China	Not determined.
Japan	Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	Not determined
New Zealand	Not determined.



## Section 16. Any other relevant information

### History

<b>Date of printing</b>	14 May 2020	<b>Date of previous issue</b>	25 November 2015
<b>Date of issue</b>	14 May 2020	<b>Version</b>	3

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ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

### Procedure used to derive the classification

	<b>Classification</b>	<b>Justification</b>
	Not classified.	



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.

