

Version 1.7 Revision Date: 09-19-2019

Date of last issue: 04-15-2019 Date of first issue: 08-05-2015

SECTION 1. IDENTIFICATION

Product name Product code	:	ddNTP Set, Sequencing Grad 03732738001	e
Manufacturer or supplier's Company name of supplier			nd GmbH
Address	:	Sandhoferstrasse 116 68305 Mannheim Germany	
Telephone Telefax Emergency telephone	:	+496217590 +496217592890	
In case of emergencies:	:	CHEMTREC	+1 703-741-5970 / 1-800-424-9300

Recommended use of the chemical and restrictions on use

Restrictions on use : For professional users only.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

The product is a kit consisting of individual ingredients. The classification of the ingredients can be obtained from section 3. Section GHS Label elements contains the resulting labelling for the kit

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

ddCTP

GHS Classification

Not a hazardous substance or mixture.

Components

No hazardous ingredients

ddATP

GHS Classification

Not a hazardous substance or mixture.



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Components

No hazardous ingredients

ddGTP

GHS Classification

Not a hazardous substance or mixture.

Components

No hazardous ingredients

ddTTP

GHS Classification

Not a hazardous substance or mixture.

Components

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

General advice	:	Do not leave the victim unattended.
If inhaled	:	Move to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	If on skin, rinse well with water.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Rinse mouth with water.
Most important symptoms and effects, both acute and delayed	:	None known.
Notes to physician	:	The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5. FIRE-FIGHTING MEASURES



Versi 1.7	on	Revision 09-19-20		Date of last issue: 04-15-2019 Date of first issue: 08-05-2015
	Suitable extinguishing	media :		g measures that are appropriate to local cir- the surrounding environment.
	Specific hazards during fighting	g fire :	No information a	vailable.
	Further information	:	Use extinguishin	ure for chemical fires. g measures that are appropriate to local cir- the surrounding environment.
	Special protective equi for fire-fighters	ipment :	Wear self-contain necessary.	ned breathing apparatus for firefighting if

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap- plication area.
Conditions for safe storage	:	Electrical installations / working materials must comply with the technological safety standards.
Further information on stor- age conditions	:	See label, package insert or internal guidelines
Materials to avoid	:	No materials to be especially mentioned.
Further information on stor- age stability	:	No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ddCTP

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values. *ddATP*



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Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

ddGTP

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values. *ddTTP*

Contains no substances with occupational exposure limit values.

Engineering measures		No data available
Lingineering measures	•	NU uata avaliable

Personal protective equipment

Respiratory protection	:	No personal respiratory protective equipment normally requi- red.
Hand protection		
Material	:	Protective gloves
Remarks	:	Wear appropriate protective gloves to prevent skin contact. Replace torn or punctured gloves promptly.
Eye protection	:	Safety glasses
Skin and body protection	:	Protective suit
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

ddCTP

Appearance	:	liquid
Color	:	clear, colorless
Odor	:	none
Odor Threshold	:	No data available
рН	:	8.1 - 8.5
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	does not flash
Evaporation rate	:	No data available



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Flammability (liquids)	: D	pes not sustain combustion.
	TI	ne product is not flammable.
Self-ignition	: N	o data available
Upper explosion limit / Upp flammability limit	er : N	o data available
Lower explosion limit / Low flammability limit	er : N	o data available
Vapor pressure	: N	o data available
Relative vapor density	: N	o data available
Relative density	: N	o data available
Solubility(ies) Water solubility	: co	mpletely miscible
Solubility in other solver	nts : N	o data available
Partition coefficient: n- octanol/water	: N	o data available
Autoignition temperature	: N	o data available
Decomposition temperature	e : N	o data available
Viscosity Viscosity, dynamic	: N	o data available
Viscosity, kinematic	: N	o data available
Oxidizing properties	: TI	ne substance or mixture is not classified as oxidizing

ddATP

Appearance	:	liquid
Color	:	clear, colorless
Odor	:	none
Odor Threshold	:	No data available
рН	:	8.1 - 8.5
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	does not flash



ddNTP Set, Sequencing Grade

ersion .7	Revision Date: 09-19-2019	Date of last issue: 04-15-2019 Date of first issue: 08-05-2015
Evaporation rate	: No data	a available
Flammability (liquids)) : Does n	ot sustain combustion.
	The pro	oduct is not flammable.
Self-ignition	: No data	a available
Upper explosion limit flammability limit	t / Upper : No data	a available
Lower explosion limit flammability limit	t / Lower : No data	a available
Vapor pressure	: No data	a available
Relative vapor densit	ty : No data	a available
Relative density	: No data	a available
Solubility(ies) Water solubility	: comple	tely miscible
Solubility in other	solvents : No data	a available
Partition coefficient: r octanol/water	n- : No data	a available
Autoignition tempera	ture : No data	a available
Decomposition temp	erature : No data	a available
Viscosity Viscosity, dynami	c : No data	a available
Viscosity, kinema	tic : No data	a available
Oxidizing properties	: The su	bstance or mixture is not classified as oxidizing

ddGTP

Appearance	: liquid
Color	: clear, colorless
Odor	: none
Odor Threshold	: No data available
рН	: 8.1 - 8.5
Melting point/range	: No data available
Boiling point/boiling range	: No data available



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ersion 7	Revision 09-19-20 ⁻		Date of last issue: 04-15-2019 Date of first issue: 08-05-2015
Flash point	:	does not flash	
Evaporation rate	:	No data availabl	e
Flammability (liquid	s) :	Does not sustair	n combustion.
		The product is n	ot flammable.
Self-ignition	:	No data availabl	e
Upper explosion lim flammability limit	nit / Upper :	No data availabl	e
Lower explosion lim flammability limit	nit / Lower :	No data availabl	e
Vapor pressure	:	No data availabl	e
Relative vapor dens	sity :	No data availabl	e
Relative density	:	No data availabl	e
Solubility(ies) Water solubility	:	completely misc	ible
Solubility in othe	er solvents :	No data availabl	e
Partition coefficient: octanol/water	:n- :	No data availabl	e
Autoignition temper	ature :	No data availabl	e
Decomposition tem	perature :	No data availabl	e
Viscosity Viscosity, dynan	nic :	No data availabl	e
Viscosity, kinem	atic :	No data availabl	e
Oxidizing properties	s :	The substance of	or mixture is not classified as oxidizing

ddTTP

Appearance	:	liquid
Color	:	clear, colorless
Odor	:	none
Odor Threshold	:	No data available
рН	:	8.1 - 8.5
Melting point/range	:	No data available



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	evision [9-19-201		Date of last issue: 04-15-2019 Date of first issue: 08-05-2015
Boiling point/boiling range	e :	No data availab	le
Flash point	:	does not flash	
Evaporation rate	:	No data availab	le
Flammability (liquids)	:	Does not susta	n combustion.
		The product is	not flammable.
Self-ignition	:	No data availab	le
Upper explosion limit / Up flammability limit	oper :	No data availat	le
Lower explosion limit / Lo flammability limit	wer :	No data availat	le
Vapor pressure	:	No data availab	le
Relative vapor density	:	No data availab	le
Relative density	:	No data availab	le
Solubility(ies) Water solubility	:	completely mise	cible
Solubility in other solv	ents :	No data availat	le
Partition coefficient: n- octanol/water	:	No data availat	le
Autoignition temperature	:	No data availab	le
Decomposition temperate	ure :	No data availab	le
Viscosity Viscosity, dynamic	:	No data availat	le
Viscosity, kinematic	:	No data availab	le
Oxidizing properties	:	The substance	or mixture is not classified as oxidizing

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	No dangerous reaction known under conditions of normal use. Stable under recommended storage conditions. No hazards to be specially mentioned.
Incompatible materials	:	Strong oxidizing agents



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Hazardous decomposition : No decomposition if stored and applied as directed. products

SECTION 11. TOXICOLOGICAL INFORMATION

ddCTP

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

- **IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

ddATP

Acute toxicity

Not classified based on available information.



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Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

- **IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

ddGTP

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

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Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.



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Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

- **IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

ddTTP

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

- **IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is



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on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

ddCTP

Ecotoxicity No data available Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available Other adverse effects

ddATP

Ecotoxicity No data available

Persistence and degradability

No data available

Bioaccumulative potential No data available

Mobility in soil

No data available

Other adverse effects

ddGTP

Ecotoxicity No data available



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Persistence and degradability

No data available

Bioaccumulative potential

No data available Mobility in soil

No data available

Other adverse effects

ddTTP

Ecotoxicity No data available Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available

Other adverse effects

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods Waste from residues	:	Can be disposed as waste water, when in compliance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

Domestic regulation

49 CFR



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Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

ddCTP

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
SARA 311/312 Hazards	: No SARA Hazards	

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

Pennsylvania Right To Know

Water

7732-18-5

Maine Chemicals of High Concern

Vermont Chemicals of High Concern

Washington Chemicals of High Concern

The ingredients of this product are reported in the following inventories:

DSL	:	This product contains the following components that are not
		on the Canadian DSL nor NDSL.

2',3'-Dideoxycytidine-5'-Triphosphate (ddCTP), disodium salt

AICS

: Not in compliance with the inventory



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NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
TCSI	: Not in compliance with the inventory
TSCA	: Substance(s) not listed on TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

ddATP

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
SARA 311/312 Hazards	: No SARA Hazards	

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.



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This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

Pennsylvania Right To Know

Water

Maine Chemicals of High Concern

Vermont Chemicals of High Concern

Washington Chemicals of High Concern

The ingredients of this product are reported in the following inventories: DSL This product contains the following components that are not on the Canadian DSL nor NDSL. 2',3'-Dideoxyadenosine-5'-Triphosphate (ddATP), disodium salt AICS Not in compliance with the inventory : NZIoC On the inventory, or in compliance with the inventory : ENCS Not in compliance with the inventory : **ISHL** Not in compliance with the inventory : KECI Not in compliance with the inventory PICCS Not in compliance with the inventory **IECSC** Not in compliance with the inventory TCSI Not in compliance with the inventory ÷ TSCA 5 Substance(s) not listed on TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

ddGTP

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.



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SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
SARA 311/312 Hazards	: No SARA Hazards	

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

Pennsylvania Right To Know Water

7732-18-5

Maine Chemicals of High Concern

Vermont Chemicals of High Concern

Washington Chemicals of High Concern

The ingredients of this product are reported in the following inventories:

DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.
		2',3'-Dideoxyguanosine-5'-Triphosphate (ddGTP), sodium salt
AICS	:	Not in compliance with the inventory
NZIoC	:	On the inventory, or in compliance with the inventory
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
TCSI	:	Not in compliance with the inventory



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TSCA

: Substance(s) not listed on TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

ddTTP

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
SARA 311/312 Hazards	: No SARA Hazards	

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

Pennsylvania Right To Know

Water

7732-18-5

Maine Chemicals of High Concern

Vermont Chemicals of High Concern

Washington Chemicals of High Concern

The ingredients of this product are reported in the following inventories:



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DSL	•	This product contains the following components that are not on the Canadian DSL nor NDSL.	
	2',3'-Dideoxythy	midine-5'-Triphosphate (ddTTP), sodium salt	
AICS	: Not in compliance	ce with the inventory	
NZIoC	: On the inventory	v, or in compliance with the inventory	
ENCS	: Not in compliance	ce with the inventory	
ISHL	: Not in compliance	ce with the inventory	
KECI	: Not in compliance	ce with the inventory	
PICCS	: Not in compliance	ce with the inventory	
IECSC	: Not in compliance	ce with the inventory	
TCSI	: Not in compliance	ce with the inventory	
TSCA	: Substance(s) no	t listed on TSCA inventory	

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

ddCTP

GHS label elements

Not a hazardous substance or mixture. *ddATP*

GHS label elements

Not a hazardous substance or mixture. **ddGTP**

GHS label elements

Not a hazardous substance or mixture. *ddTTP*

GHS label elements

Not a hazardous substance or mixture.



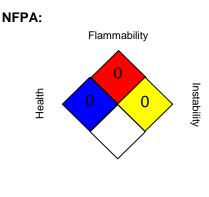
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SECTION 16. OTHER INFORMATION

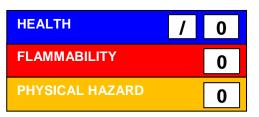
Further information

ddCTP



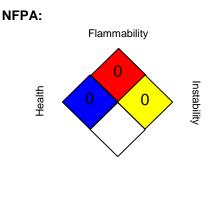
Special hazard

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

ddATP



Special hazard

ddGTP

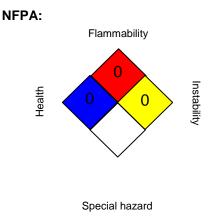
HMIS® IV:

HEALTH	1	0
FLAMMABILITY		0
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.



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HMIS® IV:

HEALTH	1	0
FLAMMABILITY		0
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

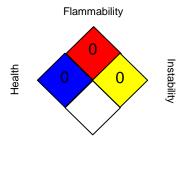
HMIS® IV:

HEALTH	/	0
FLAMMABILITY		0
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

NFPA:

ddTTP



Special hazard

Distributor

MilliporeSigma 3050 Spruce Street SAINT LOUIS MO 63103 USA

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals



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in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG -United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date

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