# SZABO SCANDIC 

## Produktinformation

Forschungsprodukte \& Biochemikalien
Zellkultur \& Verbrauchsmaterial
Diagnostik \& molekulare Diagnostik
it Laborgeräte \& Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!


Lieferung \& Zahlungsart
siehe unsere Liefer- und Versandbedingungen
Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING 

Product identifier<br>Product Name<br>Deoxynucleotide Triphosphate Set, PCR Grade: dATP 100mM Solution<br>Product Code<br>SC-43503

Recommended use of the chemical and restrictions on use
For research use only. Not intended for diagnostic or therapeutic use.

Details of the supplier of the safety data sheet
Santa Cruz Biotechnology, Inc.
10410 Finnell Street
Dallas, TX 75220
831.457 .3800
800.457.3801
scbt@scbt.com

Emergency telephone number
Chemtrec
1.800.424.9300 (Within USA)
+1.703.527.3887 (Outside USA)

## 2. HAZARDS IDENTIFICATION

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122).

## Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

## Label elements

Signal word
Hazard statements
Symbols/Pictograms
Precautionary Statements - Prevention
Precautionary Statements - Response

Not classified
Hazard statements
Not classified
Not classified
Wash hands thoroughly after handling
IF exposed or concerned: Get medical advice/attention
Hazards not otherwise classified (HNOC)
Hazards not otherwise classified (HNOC)
Not applicable
Other Information
Unknown acute toxicity

| NFPA | Health hazards | HMIS | Health hazards | Flammability |
| :--- | :--- | :--- | :--- | :--- |

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Molecular Weight
Formula

No information available No information available

| Chemical Name | CAS No | Weight $\%$ | Oral LD50 | Dermal LD50 | Inhalation LC50 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Water | $7732-18-5$ | $>95$ | $>90 \mathrm{~mL} / \mathrm{kg}($ Rat ) | - | - |
| dATP | $1927-31-7$ | $1-5$ | - | - | - |

## 4. FIRST AID MEASURES

## First Aid Measures

General advice Consult a physician if necessary. Remove to fresh air.

Eye contact
Skin Contact
Inhalation
Ingestion

Wash with plenty of water.
Wash skin with soap and water.
Remove to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration
Never give anything by mouth to an unconscious person. Clean mouth with water.

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

Symptoms
No information available.
Indication of any immediate medical attention and special treatment needed
Note to physicians
Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

## Suitable Extinguishing Media

## Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media None.

## Specific hazards arising from the chemical

Specific hazards arising from the chemical
Hazardous combustion products

## Explosion data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge

No information available.
No information available.

No information available.
No information available.

## Protective equipment and precautions for firefighters

Protective equipment and precautions As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH for firefighters
(approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

## Personal precautions

Ensure adequate ventilation, especially in confined areas.

## Environmental precautions

Environmental precautions
See Section 12 for additional Ecological Information.
Methods and material for containment and cleaning up
Methods for containment Prevent further leakage or spillage if safe to do so.
Methods for cleaning up
Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

# Conditions for safe storage, including any incompatibilities 

## Storage Conditions

Incompatible materials

Keep containers tightly closed in a dry, cool and well-ventilated place. Store at $-20^{\circ} \mathrm{C}$. None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters <br> Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

## Appropriate engineering controls

| Engineering Controls | Showers |
| :--- | :--- |
|  | Eyewash stations |
|  | Ventilation systems |

Individual protection measures, such as personal protective equipment

Eye/face protection
Skin and Body Protection
Respiratory protection

General Hygiene Considerations

Wear safety glasses with side shields (or goggles).
Wear protective gloves and protective clothing.
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State
Appearance
Odor

Property
pH
Melting point/freezing point
Boiling point
Flash point
Density
Evaporation rate
Upper flammability limits
Lower flammability limit
Vapor pressure
Vapor density
Specific gravity
Water solubility
Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
Explosive properties
Oxidizing properties
liquid
No information available
No information available

## Values

< 7.5
No information available
No information available
No information available
$1.03 \mathrm{~g} / \mathrm{mL}$
No information available
No information available
No information available
No information available
No information available
No information available
No information available
No information available
No information available
No information available
No information available
No information available
No information available
No information available

## 10. STABILITY AND REACTIVITY

Reactivity
Chemical stability
Possibility of Hazardous Reactions
Hazardous polymerization
Conditions to avoid
Incompatible materials
Hazardous Decomposition Products

Not applicable
Stable under recommended storage conditions.
None under normal processing.
No information available.
Extremes of temperature and direct sunlight.
Strong oxidizing agents.
None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

Inhalation No data available.
Eye contact
Skin Contact
No data available.
No data available.
Ingestion
No data available.

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
| :---: | :---: | :---: | :---: |
| Water |  |  |  |
| $7732-18-5$ | $>90 \mathrm{~mL} / \mathrm{kg}$ ( Rat ) | - | - |

## Information on toxicological effects <br> Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure
Chronic Toxicity
No information available.

## Numerical measures of toxicity - Product Information

Unknown acute toxicity
$4.68 \%$ of the mixture consists of ingredient(s) of unknown toxicity

## 12. ECOLOGICAL INFORMATION

4.68\% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Persistence and degradability No information available.
Bioaccumulation
No information available.
Mobility
No information available.

## 13. DISPOSAL CONSIDERATIONS

Disposal of wastes
Contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.
Do not reuse container.

## 14. TRANSPORT INFORMATION

## 15. REGULATORY INFORMATION

## International Inventories

All of the components in the product are on the following Inventory lists
Europe (EINECS/ELINCS/NLP)

| Chemical Name | TSCA | DSL | NDSL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Water | X | X | - | X | - | - | X | X | X | X |
| dATP | - | - | - | X | - | - | - | - | - | - |

## X - Listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

## US Federal Regulations

## SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

## SARA 311/312 Hazard Categories

Acute health hazard
Chronic Health Hazard
Fire hazard No
Sudden release of pressure hazard No
Reactive hazard

## CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## US State Regulations

## California Proposition 65

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

## 16. OTHER INFORMATION

Revision note No information available

## Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

## End of Safety Data Sheet

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING 

## Product identifier <br> Product Name

Deoxynucleotide Triphosphate Set, PCR Grade: dCTP 100mM Solution
Product Code
SC-43503 VIAL 2
Recommended use of the chemical and restrictions on use
For research use only. Not intended for diagnostic or therapeutic use.

Details of the supplier of the safety data sheet
Santa Cruz Biotechnology, Inc.
10410 Finnell Street
Dallas, TX 75220
831.457 .3800
800.457.3801
scbt@scbt.com

Emergency telephone number
Chemtrec
1.800.424.9300 (Within USA)
+1.703.527.3887 (Outside USA)

## 2. HAZARDS IDENTIFICATION

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122).

## Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

## Label elements

Signal word
Hazard statements
Symbols/Pictograms
Precautionary Statements - Prevention
Precautionary Statements - Response

Not classified
Hazard statements
Not classified
Not classified

Precautionary Statements - Response
Wash hands thoroughly after handling
IF exposed or concerned: Get medical advice/attention
Hazards not otherwise classified (HNOC)
Hazards not otherwise classified (HNOC)
Other Information
Unknown acute toxicity

| NFPA | Health hazards | 0 | HMIS | Health hazards | 0 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Flammability | 0 |  | Flammability | 0 |
|  | Stability | 0 |  | Physical hazards | 0 |
|  | Physical and chemical properties | - |  | Personal protection |  |

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Molecular Weight | No information available |
| :--- | :--- |
| Formula | No information available |


| Chemical Name | CAS No | Weight \% | Oral LD50 | Dermal LD50 | Inhalation LC50 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Water | $7732-18-5$ | $>95$ | $>90 \mathrm{~mL} / \mathrm{kg}$ ( Rat ) | - | - |


| 2'deoxycytidine-5'-triphosph <br> ate, sodium salt | $3770-58-9$ | $1-5$ | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: |

## 4. FIRST AID MEASURES

## First Aid Measures

| General advice | Consult a physician if necessary. Remove to fresh air. |
| :--- | :--- |
| Eye contact | Wash with plenty of water. |
| Skin Contact | Wash skin with soap and water. |
| Inhalation | Remove to fresh air If breathing is difficult, give oxygen If not breathing, give artificial <br> respiration |
| Ingestion | Never give anything by mouth to an unconscious person. Clean mouth with water. |

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

Symptoms
No information available.
Indication of any immediate medical attention and special treatment needed
Note to physicians
Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

## Suitable Extinguishing Media

Suitable Extinguishing Media
Unsuitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
None.

## Specific hazards arising from the chemical

Specific hazards arising from the No information available.
chemical
Hazardous combustion products No information available.

## Explosion data

Sensitivity to Mechanical Impact No information available.
Sensitivity to Static Discharge No information available.

## Protective equipment and precautions for firefighters

Protective equipment and precautions As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH for firefighters
(approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.

## Environmental precautions

Environmental precautions
See Section 12 for additional Ecological Information.
Methods and material for containment and cleaning up
Methods for containment
Prevent further leakage or spillage if safe to do so.
Methods for cleaning up
Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

Precautions for safe handling
Advice on safe handling
Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage, including any incompatibilities

## Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store at $-20^{\circ} \mathrm{C}$. Incompatible materials

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters <br> Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

## Appropriate engineering controls

| Engineering Controls | Showers |
| :--- | :--- |
|  | Eyewash stations |
|  | Ventilation systems |

Individual protection measures, such as personal protective equipment

Eye/face protection
Skin and Body Protection
Respiratory protection

General Hygiene Considerations

Wear safety glasses with side shields (or goggles).
Wear protective gloves and protective clothing.
If exposure limits are exceeded or irritation is experienced, $\mathrm{NIOSH} / \mathrm{MSHA}$ approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical State | liquid <br> Appearance <br> Odor information available |
| :--- | :--- |
|  | No information available |
| Property | Values |
| pH | 7.0 |
| Melting point/freezing point | No information available |
| Boiling point | No information available |
| Flash point | No information available |
| Density | 1.03 g/mL |
| Evaporation rate | No information available |
| Upper flammability limits | No information available |
| Lower flammability limit | No information available |
| Vapor pressure | No information available |
| Vapor density | No information available |
| Specific gravity | No information available |
| Water solubility | No information available |
| Solubility in other solvents | No information available |
| Partition coefficient | No information available |
| Autoignition temperature | No information available |
| Decomposition temperature | No information available |
| Kinematic viscosity | No information available |
| Explosive properties | No information available |
| Oxidizing properties | No information available |

## 10. STABILITY AND REACTIVITY

## Reactivity

Chemical stability
Possibility of Hazardous Reactions
Hazardous polymerization
Conditions to avoid
Incompatible materials
Hazardous Decomposition Products

Not applicable
Stable under recommended storage conditions.
None under normal processing.
No information available.
Extremes of temperature and direct sunlight.
Strong oxidizing agents.
None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

Inhalation No data available.
Eye contact No data available.

Skin Contact No data available.
Ingestion No data available.

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
| :---: | :---: | :---: | :---: |
| Water |  |  |  |
| $7732-18-5$ | $>90 \mathrm{~mL} / \mathrm{kg}$ ( Rat ) | - | - |

## Information on toxicological effects <br> Symptoms No information available.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure <br> Chronic Toxicity <br> No information available. <br> Numerical measures of toxicity - Product Information <br> Unknown acute toxicity $4.46 \%$ of the mixture consists of ingredient(s) of unknown toxicity

## 12. ECOLOGICAL INFORMATION

May cause long lasting harmful effects to aquatic life
$4.46 \%$ of the mixture consists of components(s) of unknown hazards to the aquatic environment.
Persistence and degradability No information available.
Bioaccumulation No information available.
Mobility
No information available.

## 13. DISPOSAL CONSIDERATIONS

Disposal of wastes
Contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.
Do not reuse container.

## 14. TRANSPORT INFORMATION

| DOT | Not regulated |
| :--- | :---: |
| IMDG | Not regulated |
| IATA | Not regulated |

## 15. REGULATORY INFORMATION

## International Inventories

All of the components in the product are on the following Inventory lists Europe (EINECS/ELINCS/NLP)

| Chemical Name | TSCA | DSL | NDSL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Water | X | X | - | X | - | - | X | X | X | X |
| 2'deoxycytidine-5'-triphosph ate, sodium salt | - | - | - | X | - | - | - | X | - | - |

$X$ - Listed
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

## US Federal Regulations

## SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

## SARA 311/312 Hazard Categories

Acute health hazard No
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive hazard No

## CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## US State Regulations

## California Proposition 65

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

## 16. OTHER INFORMATION

## Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

## End of Safety Data Sheet

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING 

## Product identifier <br> Product Name

Deoxynucleotide Triphosphate Set, PCR Grade: dGTP 100mM Solution
Product Code
SC-43503 VIAL 3
Recommended use of the chemical and restrictions on use
For research use only. Not intended for diagnostic or therapeutic use.

Details of the supplier of the safety data sheet
Santa Cruz Biotechnology, Inc.
10410 Finnell Street
Dallas, TX 75220
831.457 .3800
800.457.3801
scbt@scbt.com

Emergency telephone number
Chemtrec
1.800.424.9300 (Within USA)
+1.703.527.3887 (Outside USA)

## 2. HAZARDS IDENTIFICATION

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122).

## Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

## Label elements

Signal word
Hazard statements
Symbols/Pictograms
Precautionary Statements - Prevention
Precautionary Statements - Response

Not classified
Hazard statements
Not classified
Not classified
Wash hands thoroughly after handling
IF exposed or concerned: Get medical advice/attention
Hazards not otherwise classified (HNOC)
Hazards not otherwise classified (HNOC)
Not applicable
Other Information
Unknown acute toxicity

| NFPA | Health hazards | HMIS | Health hazards <br>  <br>  <br>  <br> Flammability <br> Stability | 0 |
| :--- | :--- | :--- | :--- | :--- |
| Physical and chemical | 0 | 0 | Flammability | Physical hazards |
|  | - |  | Personal protection |  |

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Molecular Weight | No information available |
| :--- | :--- |
| Formula | No information available |


| Chemical Name | CAS No | Weight $\%$ | Oral LD50 | Dermal LD50 | Inhalation LC50 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Water | $7732-18-5$ | $>95$ | $>90 \mathrm{~mL} / \mathrm{kg}$ ( Rat ) | - | - |


| 2'deoxyguanosine-5'-triphos <br> phate, sodium salt | $93919-41-6$ | $1-5$ | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: |

## 4. FIRST AID MEASURES

## First Aid Measures

| General advice | Consult a physician if necessary. Remove to fresh air. |
| :--- | :--- |
| Eye contact | Wash with plenty of water. |
| Skin Contact | Wash skin with soap and water. |
| Inhalation | Remove to fresh air If breathing is difficult, give oxygen If not breathing, give artificial <br> respiration |
| Ingestion | Never give anything by mouth to an unconscious person. Clean mouth with water. |

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

Symptoms
No information available.
Indication of any immediate medical attention and special treatment needed
Note to physicians
Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

## Suitable Extinguishing Media

Suitable Extinguishing Media
Unsuitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
None.

## Specific hazards arising from the chemical

Specific hazards arising from the No information available.
chemical
Hazardous combustion products No information available.

## Explosion data

Sensitivity to Mechanical Impact No information available.
Sensitivity to Static Discharge No information available.

## Protective equipment and precautions for firefighters

Protective equipment and precautions As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH for firefighters
(approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.

## Environmental precautions

Environmental precautions
See Section 12 for additional Ecological Information.
Methods and material for containment and cleaning up
Methods for containment
Prevent further leakage or spillage if safe to do so.
Methods for cleaning up
Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters <br> Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

## Appropriate engineering controls

| Engineering Controls | Showers <br> Eyewash stations <br> Ventilation systems |
| :--- | :--- |
| Individual protection measures, such as personal protective equipment |  |
| Eye/face protection | Wear safety glasses with side shields (or goggles). |
| Skin and Body Protection | Wear protective gloves and protective clothing. <br> If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved <br> respiratory protection should be worn. Positive-pressure supplied air respirators may be <br> required for high airborne contaminant concentrations. Respiratory protection must be |
| lenovided in accordance with current local regulations. |  |
| General Hygiene Considerations | Handle in accordance with good industrial hygiene and safety practice. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical State | liquid <br> Appearance <br> Odor information available |
| :--- | :--- |
|  | No information available |
| Property | Values |
| pH | 7.0 |
| Melting point/freezing point | No information available |
| Boiling point | No information available |
| Flash point | No information available |
| Density | 1.03 g/mL |
| Evaporation rate | No information available |
| Upper flammability limits | No information available |
| Lower flammability limit | No information available |
| Vapor pressure | No information available |
| Vapor density | No information available |
| Specific gravity | No information available |
| Water solubility | No information available |
| Solubility in other solvents | No information available |
| Partition coefficient | No information available |
| Autoignition temperature | No information available |
| Decomposition temperature | No information available |
| Kinematic viscosity | No information available |
| Explosive properties | No information available |
| Oxidizing properties | No information available |

## 10. STABILITY AND REACTIVITY

## Reactivity

Chemical stability
Possibility of Hazardous Reactions
Hazardous polymerization
Conditions to avoid
Incompatible materials
Hazardous Decomposition Products

Not applicable
Stable under recommended storage conditions.
None under normal processing.
No information available.
Extremes of temperature and direct sunlight.
Strong oxidizing agents.
None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

Inhalation No data available.

Eye contact No data available.
Skin Contact No data available.
Ingestion
No data available.

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
| :---: | :---: | :---: | :---: |
| Water |  |  |  |
| $7732-18-5$ | $>90 \mathrm{~mL} / \mathrm{kg}$ ( Rat ) | - | - |

## Information on toxicological effects <br> Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure
Chronic Toxicity
No information available.
Numerical measures of toxicity - Product Information
Unknown acute toxicity $4.83 \%$ of the mixture consists of ingredient(s) of unknown toxicity

## 12. ECOLOGICAL INFORMATION

$4.83 \%$ of the mixture consists of components(s) of unknown hazards to the aquatic environment.
Persistence and degradability No information available.
Bioaccumulation No information available.
Mobility
No information available.

## 13. DISPOSAL CONSIDERATIONS

Disposal of wastes

Contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.
Do not reuse container.

## 14. TRANSPORT INFORMATION

| DOT | Not regulated |
| :--- | :---: |
| IMDG | Not regulated |
| IATA | Not regulated |

## 15. REGULATORY INFORMATION

## International Inventories

All of the components in the product are on the following Inventory lists Europe (EINECS/ELINCS/NLP) South Korea (KECL):

| Chemical Name | TSCA | DSL | NDSL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Water | X | X | - | X | - | - | X | X | X | X |
| 2'-deoxyguanosine-5'-triphos <br> phate, sodium salt | - | - | - | X | - | - | - | X | - | - |

## $X$ - Listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
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## US Federal Regulations

## SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

## SARA 311/312 Hazard Categories

Acute health hazard No
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive hazard No

## CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## US State Regulations

## California Proposition 65

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

## 16. OTHER INFORMATION

## Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

## End of Safety Data Sheet

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING 

## Product identifier <br> Product Name

Deoxynucleotide Triphosphate Set, PCR Grade: dTTP 100mM Solution
Product Code
SC-43503 VIAL 4

Recommended use of the chemical and restrictions on use
For research use only. Not intended for diagnostic or therapeutic use.

Details of the supplier of the safety data sheet
Santa Cruz Biotechnology, Inc.
10410 Finnell Street
Dallas, TX 75220
831.457 .3800
800.457.3801
scbt@scbt.com

Emergency telephone number
Chemtrec
1.800.424.9300 (Within USA)
+1.703.527.3887 (Outside USA)

## 2. HAZARDS IDENTIFICATION

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122).

## Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

## Label elements

Signal word
Hazard statements
Symbols/Pictograms
Precautionary Statements - Prevention
Precautionary Statements - Response
Hazards not otherwise classified (HNOC)
Hazards not otherwise classified (HNOC)
Other Information
Unknown acute toxicity

Health hazards
Flammability
Stability
Physical and chemical properties

Not classified
Not classified
Not classified
Wash hands thoroughly after handling
IF exposed or concerned: Get medical advice/attention

Not applicable
$4.6 \%$ of the mixture consists of ingredient(s) of unknown toxicity.


HMIS
Health hazards 0

Flammability 0
Physical hazards 0
Personal protection

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Molecular Weight
Formula

No information available No information available

| Chemical Name | CAS No | Weight \% | Oral LD50 | Dermal LD50 | Inhalation LC50 |
| :---: | :---: | :---: | :---: | :---: | :---: |


| Water | $7732-18-5$ | $>95$ | $>90 \mathrm{~mL} / \mathrm{kg}$ ( Rat ) | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: |
| thymidine-5'-triphosphate, <br> sodium salt | $18423-43-3$ | $1-5$ | - | - | - |

## 4. FIRST AID MEASURES

## First Aid Measures

| General advice | Consult a physician if necessary. Remove to fresh air. |
| :--- | :--- |
| Eye contact | Wash with plenty of water. |
| Skin Contact | Wash skin with soap and water. |
| Inhalation | Remove to fresh air If breathing is difficult, give oxygen If not breathing, give artificial <br> respiration |
| Ingestion | Never give anything by mouth to an unconscious person. Clean mouth with water. |

Most important symptoms and effects, both acute and delayed Symptoms

No information available.

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

Note to physicians
Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

## Suitable Extinguishing Media

Suitable Extinguishing Media
Unsuitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
None.
Specific hazards arising from the chemical
Specific hazards arising from the
No information available.
chemical
Hazardous combustion products
No information available.

## Explosion data

Sensitivity to Mechanical Impact
Sensitivity to Static Discharge
No information available.
No information available.

## Protective equipment and precautions for firefighters

Protective equipment and precautions As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH for firefighters
(approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

## Personal precautions

Ensure adequate ventilation, especially in confined areas.

## Environmental precautions

Environmental precautions
See Section 12 for additional Ecological Information.
Methods and material for containment and cleaning up
Methods for containment
Prevent further leakage or spillage if safe to do so.
Methods for cleaning up
Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

Precautions for safe handling
Advice on safe handling
Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage, including any incompatibilities

## Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store at $-20^{\circ} \mathrm{C}$. None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters <br> Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

## Appropriate engineering controls

| Engineering Controls | Showers |
| :--- | :--- |
|  | Eyewash stations |
|  | Ventilation systems |

Individual protection measures, such as personal protective equipment

Eye/face protection
Skin and Body Protection
Respiratory protection

General Hygiene Considerations

Wear safety glasses with side shields (or goggles).
Wear protective gloves and protective clothing.
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical State | liquid |
| :--- | :--- |
| Appearance | No information available |
| Odor | No information available |
|  |  |
| Property | Values |
| pH | 7.0 |
| Melting point/freezing point | No information available |
| Boiling point | No information available |
| Flash point | No information available |
| Density | 1.03 g/mL |
| Evaporation rate | No information available |
| Upper flammability limits | No information available |
| Lower flammability limit | No information available |
| Vapor pressure | No information available |
| Vapor density | No information available |
| Specific gravity | No information available |
| Water solubility | No information available |
| Solubility in other solvents | No information available |
| Partition coefficient | No information available |
| Autoignition temperature | No information available |
| Decomposition temperature | No information available |
| Kinematic viscosity | No information available |
| Explosive properties | No information available |
| Oxidizing properties | No information available |

## 10. STABILITY AND REACTIVITY

Reactivity
Chemical stability
Possibility of Hazardous Reactions
Hazardous polymerization
Conditions to avoid
Incompatible materials
Hazardous Decomposition Products

Not applicable
Stable under recommended storage conditions.
None under normal processing.
No information available.
Extremes of temperature and direct sunlight.
Strong oxidizing agents.
None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

Inhalation No data available.
Eye contact
Skin Contact
No data available.
Ingestion
No data available.
No data available.

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
| :---: | :---: | :---: | :---: |
| Water |  |  |  |
| $7732-18-5$ | $>90 \mathrm{~mL} / \mathrm{kg}$ (Rat $)$ | - | - |

## Information on toxicological effects

Symptoms No information available.
Delayed and immediate effects as well as chronic effects from short and long-term exposure
Chronic Toxicity $\quad$ No information available. Chronic Toxicity

## Numerical measures of toxicity - Product Information

Unknown acute toxicity
$4.6 \%$ of the mixture consists of ingredient(s) of unknown toxicity

## 12. ECOLOGICAL INFORMATION

## Ecotoxicity

May cause long lasting harmful effects to aquatic life
$4.6 \%$ of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Persistence and degradability
Bioaccumulation
Mobility

No information available.
No information available.
No information available.

## 13. DISPOSAL CONSIDERATIONS

Disposal of wastes
Contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.
Do not reuse container.

## 14. TRANSPORT INFORMATION

## 15. REGULATORY INFORMATION

## International Inventories

All of the components in the product are on the following Inventory lists
No information available

| Chemical Name | TSCA | DSL | NDSL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Water | X | X | - | X | - | - | X | X | X | X |

## $X$ - Listed

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