

# ddGTP

# Cat#: orb65372 (MSDS)

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: ddNTP

2. HAZARDS IDENTIFICATION

This substance is not classified as dangerous according to Regulation (EC) No. 1272/2008 (EU-GHS/CLP).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Formula: ddATP: C10H16N5O11P3 (free acid) ddCTP: C9H16N3O12P3 (free acid) ddGTP: C10H16N5O12P3 (free acid) ddTTP: C10H17N2O13P3 (free acid)

Molecular Weight: ddATP: 475.18 g/mol (free acid) ddCTP: 451.16 g/mol (free acid) ddGTP: 491.18 g/mol (free acid) ddTTP: 466.17 g/mol (free acid)

CAS-No.: EC number: Classification: -Concentration: 10 mM - 11 mM

# 4. FIRST AID MEASURES

If inhaled If breathed in, move person into fresh air. If not breathing give artificial respiration.

In case of skin contact Wash off with soap and plenty of water.

In case of eye contact Flush eyes with water as a precaution.

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# If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water.

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions Avoid dust formation. Environmental precautions Do not let product enter drains. Methods and materials for containment and cleaning up Sweep up and shovel. Keep in suitable, closed containers for disposal.

# 7. HANDLING AND STORAGE

#### Handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: store at -20 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

#### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Hand protection

For prolonged or repeated contact use protective gloves.

#### Eye protection

Safety glasses



Hygiene measures

General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form: clear aqueous solution Safety data pH: 7.5 ±0.5 Melting point: no data available Boiling point: no data available Flash point: no data available Ignition temperature: no data available Lower explosion limit: no data available Upper explosion limit: no data available Water solubility: no data available

# **10. STABILITY AND REACTIVITY**

Storage stability Stable under recommended storage conditions. Materials to avoid Strong oxidizing agents. Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Oxides of phosphorus, Lithium oxides.

**11. TOXICOLOGICAL INFORMATION** 

Acute toxicity no data available

Irritation and corrosion no data available

Sensitisation no data available

Chronic exposure

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

Signs and Symptoms of Exposure Dermatitis



Potential Health Effects Inhalation: May be harmful if inhaled. May cause respiratory tract irritation. Skin: May be harmful if absorbed through skin. May cause skin irritation. Eyes: May cause eye irritation. Ingestion: May be harmful if swallowed. Target Organs: Liver, Kidney

**12. ECOLOGICAL INFORMATION** 

Elimination information (persistence and degradability) no data available

Ecotoxicity effects no data available

Further information on ecology no data available

13. DISPOSAL CONSIDERATIONS

Product Observe all federal, state, and local environmental regulations. Contaminated packaging Dispose of as unused product.

## **14. TRANSPORT INFORMATION**

ADR/RID Not dangerous goods

IMDG Not dangerous goods

IATA Not dangerous goods

**15. REGULATORY INFORMATION** 

Labelling according to EC Directives The product does not need to be labelled in accordance with EC directives or respective national laws.