

Material Safety Data Sheet



Version: 2, Date: 30.05.2014

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

Commercial Product Name and ID-No.:

5-(Octa-1,7-diynyl)-5'-O-triphosphate-2'-deoxycytidine (mi-N3001), 1 tube

5-(Octa-1,7-diynyl)-5'-O-triphosphate-2'-deoxyuridine (mi-N3002), 1 tube

Intended use: liquid
Company: metabion international AG
Simmelweisstrasse 3
82152 Planegg - Steinkirchen
Telephone: +49-89-899363 0
Telefax: +49-89-899363 11
e-mail: info@metabion.com

Centre for detoxification:

2. CHEMICAL CHARACTERISATION / INFORMATION ON CONSTITUENTS

Contains no hazardous substances in concentrations to be declared.

Labelling not required

Formular: $C_{17}H_{19}N_2O_{14}P_3Na_4$

MW: 660.22 g/mol

Purity: > 99.2 %

Description: 0.1 M solution in water (pH 7.5)

Dangerous components: Contains no metals, pigments, catalysts, vehicle, coating, flux

TLV units: Unknown

3. HAZARDS IDENTIFICATION

Risk advice to human and the environment

Hazardous description: No data available

Information concerning particular hazards for human and environment: No data available

Classification system: None

4. FIRST AID MEASURES

Avoid all direct contact.

Always contact physician.

Inhalation: Local exhaust is usually sufficient.

After contact with skin: Flush thoroughly with water.

After contact with eyes: Flush thoroughly with water.

After ingestion: Contact physician.

Never induce vomiting or give liquids to someone who is unconscious or cannot swallow.

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5. FIRE-FIGHTING MEASURES

Prevention of fire and explosion: A finely divided dust aerosol may be explosive although the exact conditions of the hazard are unknown. Avoid dispersing dust.

Fire and explosion hazards: A finely divided dust aerosol may be explosive although the exact conditions of the hazard are unknown.

Flash Point: not available Means of extinguishing: Use material suitable and appropriate to surrounding fire conditions.

Extinguishing media: Dry chemical, CO₂, H₂O, foam

Fire fighting procedures: Use material suitable and appropriate to surrounding fire conditions.

Extinguishing media: Dry chemical, CO₂, H₂O, foam

6. ACCIDENTAL RELEASE MEASURES

Avoid all direct contact.

Respiratory protection: A dust mask is recommended when a possibility of dust inhalation exists. Local exhaust is usually sufficient.

Protective gloves: Impermeable

Eye protection: Laboratory safety glasses

Other protective equipment: Normal laboratory apparel

Measures for environmental protection: Not necessary

Measures for cleaning/collection if a spill occurs: First sweep up the bulk of the material. Finish by wiping with a damp towel.

7. HANDLING AND STORAGE

Handling:

Information for safe handling: Avoid all direct contact. Handle using standard laboratory practices.

Information about fire: No risk of explosion or fire

Storage:

Requirements to be met by storerooms and receptacles: No further requirements

Information about storage in one common storage facility: Not required

Further information about storage conditions: Freezer storage, -20°C, dry

Class according to regulations on flammable liquids: Void

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical facilities: No further requirements, see item 7.

Ingredients with limit values that require monitoring in the workplace: No ingredients need monitoring.

Personal protective equipment: The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Local exhaust is usually sufficient. A dust mask is recommended when a possibility of dust inhalation exists.

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Protection of hands: Impermeable gloves

Eye protection: Laboratory safety glasses

9. PHYSICAL AND CHEMICAL PROPERTIES

Form and color: clear solution in water

Odor: None

Melting point / range: Undetermined

Boiling point / range: Decomposes

Flash point: Not available

Self-igniting: Not self-igniting

Danger of explosion: No explosion hazard

Solubility in water: soluble

pH: 7.5

10. STABILITY AND REACTIVITY

Thermal decomposition/condition to be avoided: No decomposition if used according to specifications.

Dangerous reactions: Stable material, hazardous polymerization will not occur.

Dangerous decomposition: Toxic oxides of nitrogen, carbon and phosphor may evolve when heated to decomposition.

Stability: Unstable in base

Incompatibility: Strong oxidizing agents

11. TOXICOLOGICAL INFORMATION

Threshold limit value: No data available

Overexposure effects: No data available

Acute toxicity: No data available

Primary irritant effect:

On the skin: May be harmful if absorbed through the skin / causes skin irritation

On the eye: causes eye irritation

Additional toxicological information: This product should be handled with the usual care when dealing with chemicals. Exposure can cause: CNS depression, gastrointestinal disturbances, narcotic effect, damage to the eyes, damage to the liver, damage to the heart, damage to the kidneys. May cause convulsions. Target organs: eyes, nerves, liver, kidneys.

12. ECOLOGICAL INFORMATION

General notes: No data available

13. DISPOSAL CONSIDERATIONS

Product:

Recommendation: Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator

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equipped with an afterburner and scrubber.

Observe all federal, state and local environmental regulations.

Unclean packaging:

Recommendation: Dispose of in compliance with official regulations.

Recommended cleaning agents: First sweep up the bulk of the material. Finish by wiping with a damp towel.

Waste disposal: Dispose of waste according to nature of waste solid, solution in solvent, others. Dispose of waste according to the local legislation.

14. TRANSPORT INFORMATION

Land transport ADR/RID (cross-border)

ADR/RID class: Not a dangerous substance as defined in the regulations.

Maritime transport IMDG

IMDG class: Not a dangerous substance as defined in the regulations.

Maritime pollutant: No

Air transport ICAO-TI and IATA-DGR

ICAO/IATA class: Not a dangerous substance as defined in the regulations.

15. REGULATORY INFORMATION

Labelling according to EU guidelines: This takes into account directive 67/548/EEC and 1999/45/EC

Hazard symbols: None

S-phrases: S3/14 Keep in a cool place away from acids.

S35 This material and its container must be disposed of in a safe way

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

S46 If swallowed, seek medical advice immediately and show this container or label

Note: The toxicological properties of this material have not yet been thoroughly investigated. Use prudent laboratory practices for handling chemical substances of unknown toxicity.

16. OTHER INFORMATION

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