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1. Identification of the substance/preparation and of the company

Product details

Trade Name: Biotin-11 dUTP

Product Name: Biotin-11-2'-deoxyuridine 5'-triphosphate lithium salt

Manufacturer /Supplier:

Genaxxon BioScience GmbH, Beim Wiesental 22, 88400 Biberach/Germany.
Tel.: +49 (0)7357 916377

Further information available from:

Genaxxon BioScience GmbH, Beim Wiesental 22, 88400 Biberach/Germany.
Tel.: +49 (0)7357 916377

Information in case of emergency:

Poison Information Centre Mainz, Germany
Tel.: +49 (0)6131 19240 / 24 h

MSDS-No: biotin-11/dntp/1

NOTE: If this product is a kit or supplied with more than one material, please refer to the MSDS for each component for hazard information.

Product Use:

This products are for laboratory research use only and are not intended for human or animal diagnostics, therapeutics or other clinical uses.

2. Composition/information on ingredients

Chemical characterisation

Description: Mixture of substances listed below with non-hazardous additions

Product Name	CAS #	EC no	Annex I / Index Number
Biotin-11-2'-deoxyuridine-5'-triphosphate lithium salt		none	none

Ingredient Name	Percentage	CAS #	EC no	Annex I / Index Number
Methanol Symbols: F-T R-Phrases: 11-23/24/25-39/23/24/25 Highly flammable. Toxic by inhalation, in contact with skin and if swallowed. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.	< 1 %	67-56-1	200-659-6	63-001-00-X
Ethyl Alcohol – non-denatured Symbols: F R-Phrases: 11 Highly flammable.	< 1 %	64-17-5	200-578-6	603-002-00-5
Acetone Symbols: F-Xi R-Phrases: 11-36-66-67 Highly flammable. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.	< 0.5 %	67-64-1	200-662-2	606-001-00-8

3. Hazardous identification

Hazard description: Not applicable.

Information concerning particular hazards for human and environment:

Not hazardous according to Directive 67/548/EEC.



Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4. First-aid measures

After inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes (> 10 minutes) under running water. Then consult doctor.

After swallowing: If swallowed, wash out mouth with water provided person is conscious. Call for doctor immediately.

5. Fire-fighting measures

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special risks: Specific Hazard(s): Emits toxic fumes under fire conditions.

Protective equipment (For firefighters): Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. Accidental release measures

Person related safety precautions: Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Measures for environmental protection: Do not allow product to reach sewage system or any water course.

Measures for cleaning/collecting: Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust). Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. Handling and storage

Handling

Information for safe handling: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Information about fire – and explosion protection: No special measures required.

Storage:

Requirements to be met by storerooms and receptacles: No special measures required.

Information about storage in one common storage facility: No special measures required.

Further information about storage conditions: Store at -20°C.

8. Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Personal protective equipment

General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Not required.

Protection of hands: Protective compatible chemical-resistant gloves.

Materials of gloves: The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.



Penetration times of gloves: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles.

9. Physical and chemical properties

General Information

Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic

Change in conditions

Melting point/Melting range:	Undetermined
Boiling point/Boiling range:	Undetermined
Flash point:	Not applicable
Self-ignition:	Product is not self-igniting
Danger of explosion:	Product does not present an explosion hazard
Density at 20°C:	1.00 g/cm ³
Solubility in / Miscibility with water:	Fully miscible
pH value at 20°C:	7.5

10. Stability and reactivity

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

Dangerous reactions: Reacts with acids, alkalis and oxidizing agents.

Dangerous decomposition products: No dangerous decomposition products known.

11. Toxicological information

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Acute toxicity:

Primary irritant effects:

On the skin: May cause skin irritation. May be harmful if absorbed through the skin.

On the eye: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

Sensitisation: No sensitizing effects known

Additional toxicological information: The product or a component is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

12. Ecological Information

General notes: Water hazard class 1 (German Regulation) (Self assessment): slightly hazardous to water. Do not allow undiluted product for large quantities of it to reach ground water, water course or sewage system.

Material Safety Data Sheet

According to 91/155EC

For Biotin-11 dUTP

Printing Date: 07.05.2005

Reviewed on: 07.05.2005

13. Disposal considerations

Product:

Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleaning agents: Water, if necessary together with cleansing agents.

14. Transport information

Land transport ADR/RID (cross border)

ADR/RID class: Non-hazardous for road transport.

Maritime transport IMDG:

IMDG Class: Non-hazardous for sea transport.

Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: Non-hazardous for air transport.

15. Regulatory information

Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

Not hazardous according to Directive 67/548/EEC.

Caution: The product is not yet fully tested (EU).

The product is not subject to identification regulations und EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

National Regulations:

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.