

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Product No: BCA-03

Trade name: C8-Alkyne-dU-CEP

Version 5.2

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Revision date: 28.02.2025



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifiers

Product Name: C8-Alkyne-dU-CEP

Formal name: 5-(Octa-1,7-diynyl)-3'-O-[(2-cyanoethoxy)(diisopropylamino)-phosphono]]-5'-O-(4,4'-dimethoxytrityl)-2'-deoxyuridine

Product Number: BCA-03

CAS-Nr.: 938186-76-6

Index No.: not available

EC No: not available

REACH No: not available

1.2. Relevant identified uses of the substance or mixture and uses advised against Identified uses:

Laboratory chemical, for research and development only

1.3. Details of the supplier of the safety data sheet

baseclick GmbH

Floriansbogen 2-4

82061 Neuried

Germany

Telephone: +49 89 9699 3401

E-mail: support@baseclick.eu

1.4. Emergency telephone number

+49 89 9699 3401 (Working days Germany 09:00 AM – 05:00 PM CET)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

not required

2.3. Other hazards

This substance / mixture does not contain components in concentrations of 0.1% or higher, which are classified as either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB).

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SECTION 3: Composition/information on ingredients

3.1 Substance(s)

Formula: $C_{47}H_{55}N_4O_8P$

MW: 834.94 g/mol

Purity: $\geq 98\%$ (HPLC & 31P-NMR)

Description: Off-white to light yellow solid

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

CAS-No.: 938186-76-6

TLV units: Unknown

3.2 Mixtures

not relevant

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes:

Consult a physician. Show this safety data sheet to attending physician.

If inhaled:

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

In case of skin contact:

Rinse skin with water

In case of eye contact:

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

If swallowed:

Never give anything by mouth to an unconscious person or induce vomiting. Rinse mouth with water.



4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

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

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5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:

In case of fire may be liberated: nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂), phosphorus oxides (P_xO_y)

A finely divided dust aerosol may be explosive although the exact conditions of the hazard are unknown. Avoid dispersing dust.

5.3 Advice for fire-fighters

Use material suitable and appropriate to surrounding fire conditions.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid all direct contact.

Respiratory protection: A NIOSH 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

6.2 Environmental precautions

Not necessary

6.3 Methods and material for containment and cleaning up

Take up mechanically. Control of dust.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition. Provide adequate ventilation. When not in use, keep containers tightly closed.

7.2 Conditions for safe storage, including any incompatibilities

Store under inert gas in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C

Moisture sensitive.

Storage class (TRGS 510): 11 Combustible Solids

7.3 Specific end use(s)

No information available.

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SECTION 8: Exposure controls/personal protection Handling and storage

8.1 Control parameters

No data available.

8.2 Exposure controls



Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Wash and dry hands.

Body Protection: Complete suit protecting against chemicals, flame retardant antistatic protective clothing.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Solid

Colour: Off-white to light yellow

Odour: None

Odour threshold: No data available

pH (value): No data available

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point: No data available

Evaporation rate: No data available

Flammability (solid, gas): No data available

lower explosion limit (LEL): No data available

upper explosion limit (UEL): No data available

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Explosion limits of dust clouds: No data available

Vapour pressure: No data available

Vapour density: No data available

Relative density: No data available

Water solubility (20 °C): insoluble

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity, flow time (23 °C): No data available

Viscosity, dynamic (mPas / 20 °C): No data available

Explosive properties: No data available

Oxidizing properties: No data available

9.2 Other information:

Solubility in DCM: 25 mg/mL

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Dangerous decomposition: Toxic oxides of nitrogen may evolve when heated to decomposition.

10.5 Incompatible materials

Strong oxidizing agents, Reducing agents, Bases, Strong acids

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions: Carbon oxides, Nitrogen oxides (NO_x), Oxides of phosphorus

Other decomposition products: No data available

In case of fire: see section 5

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: No data available

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: No data available

Respiratory or skin sensitisation: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: 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.

Reproductive toxicity: No data available

Specific target organ toxicity -single exposure: No data available

Specific target organ toxicity -repeated exposure: No data available

Aspiration hazard: No data available

Additional Information: RTECS: Not available

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

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Process of degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product:

Consult the appropriate local waste disposal expert about waste disposal.

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Contaminated packaging:
see Product

SECTION 14: Transport information

14.1 UN number

ADR/RID: -

IMDG: -

IATA: -

14.2 UN Proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4 Packing group

ADR/RID: -

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: no

IMDG: no

IATA: no

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, health and environmental regulations/legislation specific for the substance or mixture. This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

16.1 Further information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. It does not represent any guarantee of the accuracy, completeness or properties of the product. This material is intended for use by persons with pertinent technical skills and at their discretion and risk. It is the responsibility of the user to determine the product's suitability for its intended use, the product's safe use, and the product's proper disposal. Disposal of hazardous material may be subject to local laws or regulations. Baseclick GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. Not for drug use! For R&D only!