

**Material Safety Data Sheet**

Revision Date: 26-Dec-2025

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

Product name :  $\beta$ -D-homoDNA C(Bz) amidite  
CAS Number : 145610-77-1  
MDL Number : MFCD35144115  
Product ID : STA-AM10932  
Product Use : For research use only  
Manufacturer/Supplier : WuXi AppTec(Tianjin) Co., Ltd  
Address : 168 Nanhai Road, Tianjin Economic-Technological  
Development Area, Tianjin, 300457, China  
Telephone : +86-22-59987288  
Fax : +86-22-59987900

**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Not a hazardous substance or mixture.

**2.2 Label elements**

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

**2.3 Other hazards – none****3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

Chemical Formula :  $C_{47}H_{54}N_5O_8P$

Molecular Weight : 847.95 g/mol

EC-No.:

| Component                        |             | Concentration |
|----------------------------------|-------------|---------------|
| $\beta$ -D-homoDNA C(Bz) amidite |             |               |
| CAS Number                       | 145610-77-1 | -             |

No components need to be disclosed according to the applicable regulations.

**4. FIRST AID MEASURES****4.1 Description of first aid measures****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

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

**In case of skin contact**

Wash off with soap and plenty of water.

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**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. 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

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**5. FIRE-FIGHTING MEASURES****5.1 Extinguishing media****Suitable extinguishing media**

Alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable extinguishing media:** no data

**5.2 Special hazards arising from the substance or mixture**

In combustion toxic fumes may form.

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

Use water spray to cool unopened containers.

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**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Avoid breathing vapours, mist or gas.

For personal protection see section 8.

**6.2 Environmental precautions**

Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For disposal see section 13.

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**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in -20°C. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Wear Protective safety goggles.  
Wear chemical-resistant gloves.  
Wear protective clothing and chemical resistant boots.  
Ensure ventilation during use.  
After contact with skin, wash immediately.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                         |                         |
|-----------------------------------------|-------------------------|
| Appearance                              | Off-white solid         |
| Melting point/freezing point            | No data available       |
| Initial boiling point and boiling range | No data available       |
| Odour                                   | Odorless                |
| Odour Threshold                         | No data available       |
| pH                                      | No data available       |
| Evaporation rate                        | No data available       |
| Vapour pressure                         | No data available       |
| Vapor Density                           | No data available       |
| Solubility in/Miscibility with          | CH <sub>3</sub> CN, DMF |
| Auto-ignition temperature               | No data available       |
| Decomposition temperature               | No data available       |
| Viscosity                               | No data available       |
| Explosive properties                    | No data available       |
| Oxidizing properties                    | No data available       |
| Flash point                             | No data available       |
| Relative density                        | No data available       |

### Safety data

No data available

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## 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

Avoid moisture.

### 10.5 Incompatible materials

Oxidizing agents.

### 10.6 Hazardous decomposition products

Other decomposition products - No data available.

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

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|                                                    |                   |
|----------------------------------------------------|-------------------|
| Acute toxicity                                     | No data available |
| Skin corrosion/irritation                          | No data available |
| Serious eye damage/eye irritation                  | No data available |
| Respiratory or skin sensitization                  | No data available |
| Germ cell mutagenicity                             | No data available |
| Carcinogenicity                                    | No data available |
| 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 |

### 11.2 Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

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## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

No data available.

### 12.2 Persistence and 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.

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## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Offer surplus and non-recyclable solutions to a licensed disposal company.

### 13.2 Contaminated packaging

Dispose of as unused product.

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## 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 Packaging 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.

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**15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

no data available

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

**Caution:** Substance not yet fully tested (EU).

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**16. OTHER INFORMATION**

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