

Revision date 07-Jun-2024

Revision Number 1

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

### 1.1. Product identifier

|  |  |
|--|--|
| <b>Product Catalog Number:</b><br>10-3105-XX | <b>Product Description:</b><br>5'-Dimethoxytrityl-N-methyl-N-phenoxyacetyl-Adenosine,2'-O-methyl-3'-[(2-cyanoethyl)-(N,N-diisopropyl)]-phosphoramidite |
|--|--|

**Product Code(s)**  
10-3105-XX

**Product Name**  
2'-OMe-N6-Me-A-CE Phosphoramidite

**Pure substance/mixture**  
**Formula**

Substance  
C50H58N7O9P

**Molecular weight** 932.03

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

**Recommended use** For research use only

**Uses advised against** Not for human diagnostic use

### 1.3. Details of the supplier of the safety data sheet

*For further information, please contact*

**Company Phone Number** 1-703-437-6191

**Website** [www.glenresearch.com](http://www.glenresearch.com)

**E-mail address** [support@glenresearch.com](mailto:support@glenresearch.com)

### 1.4. Emergency telephone number

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to  
Regulation (EC) No. 1272/2008 [CLP]  
This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### 2.2. Label elements

This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]  
**Hazard statements**  
This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

| Chemical name  | Weight-% | REACH registration number | EC No (EU Index No) | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|--|----------|---------------------------|---------------------|---|------------------------------------|----------|----------------------|
| 5'-Dimethoxytrityl-N-methyl-N-phenoxyacetyl-Adenosine,2'-O-methyl-3'-[(2-cyanoethyl)- (N,N-diisopropyl)]-phosphoramidite<br>2690324-66-2 | 100      | No data available         | -                   | No data available   | -                                  | -        | -                    |

**Full text of H- and EUH-phrases: see section 16**Acute Toxicity Estimate

No information available

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

**SECTION 4: First aid measures****4.1. Description of first aid measures**

|   |   |
|---|---|
| <b>General advice</b>                     | This product presents no hazards under normal conditions of use.  |
| <b>Inhalation</b>                         | Not an expected route of exposure. IF exposed or concerned: Get medical advice/attention.   |
| <b>Eye contact</b>                        | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. |
| <b>Skin contact</b>                       | Wash skin with soap and water. Get medical attention if symptoms occur.   |
| <b>Ingestion</b>                          | Not an expected route of exposure. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.  |
| <b>Self-protection of the first aider</b> | Wear personal protective clothing (see section 8).  |

**4.2. Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards arising from the chemical** No information available.

**Hazardous combustion products** Nitrogen oxides (NOx). Carbon oxides. Phosphorus oxides.

### 5.3. Advice for firefighters

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation. Use personal protective equipment as required.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

### 6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation. Use personal protection equipment. Wash thoroughly after handling.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

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

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

**7.3. Specific end use(s)**

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL)** No information available.  
**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls**

**Engineering controls** Showers  
 Eyewash stations  
 Ventilation systems

**Personal protective equipment**

**Eye/face protection** If splashes are likely to occur: Wear safety glasses with side shields (or goggles).

**Skin and body protection** If there is a risk of contact: Wear suitable protective clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Thermal hazards** No information available.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** No information available.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

**Physical state** Solid  
**Appearance** Free-flowing powder  
**Color** White to off-white  
**Odor** Odorless  
**Odor threshold** No information available

| <u>Property</u>                         | <u>Values</u>            | <u>Remarks • Method</u>  |
|---|--------------------------|--------------------------|
| Melting point / freezing point          | No data available        | No data available        |
| Initial boiling point and boiling range | No data available        | No data available        |
| Flammability                            | No data available        | No information available |
| Flammability Limit in Air               |                          | No information available |
| Upper flammability or explosive limits  | No data available        |                          |
| Lower flammability or explosive limits  | No data available        |                          |
| Flash point                             | No data available        | No information available |
| Autoignition temperature                | No data available        | No information available |
| Decomposition temperature               |                          | No data available        |
| pH                                      | No data available        | No data available        |
| pH (as aqueous solution)                | No data available        | No information available |
| Kinematic viscosity                     | No data available        | No data available        |
| Dynamic viscosity                       | No data available        | No data available        |
| Water solubility                        | No data available        | None known               |
| Solubility(ies)                         | No data available        | No information available |
| Partition coefficient                   | No data available        | No information available |
| Vapor pressure                          | No data available        | No information available |
| Relative density                        | ~1                       | None known               |
| Bulk density                            | No data available        |                          |
| Liquid Density                          | No data available        |                          |
| Relative vapor density                  | No data available        | No information available |
| Particle characteristics                |                          |                          |
| Particle Size                           | No information available |                          |
| Particle Size Distribution              | No information available |                          |

**9.2. Other information**

**Molecular weight** 932.03

9.2.1. Information with regard to physical hazard classes  
Not applicable No information available

9.2.2. Other safety characteristics  
No information available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

**Reactivity** No information available.

**10.2. Chemical stability**

**Stability** Stable under normal conditions.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** None under normal processing.

**10.4. Conditions to avoid**

**Conditions to avoid** None known based on information supplied.

**10.5. Incompatible materials**

**Incompatible materials** None known based on information supplied.

## 10.6. Hazardous decomposition products

**Hazardous decomposition products** None under normal use conditions.

## **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Information on likely routes of exposure

##### **Product Information**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. |

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

#### Acute toxicity

**Numerical measures of toxicity**  
No information available

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|  |                           |
|--|---------------------------|
| <b>Skin corrosion/irritation</b>         | No information available. |
| <b>Serious eye damage/eye irritation</b> | No information available. |
| <b>Respiratory or skin sensitization</b> | No information available. |
| <b>Germ cell mutagenicity</b>            | No information available. |
| <b>Carcinogenicity</b>                   | No information available. |
| <b>Reproductive toxicity</b>             | No information available. |
| <b>STOT - single exposure</b>            | No information available. |
| <b>STOT - repeated exposure</b>          | No information available. |
| <b>Aspiration hazard</b>                 | No information available. |

**11.2. Information on other hazards****11.2.1. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

**11.2.2. Other information**

**Other adverse effects** No information available.

**SECTION 12: Ecological information****12.1. Toxicity**

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

**12.2. Persistence and degradability**

**Persistence and degradability** No information available.

**12.3. Bioaccumulative potential**

**Bioaccumulation** There is no data for this product.

**12.4. Mobility in soil**

**Mobility in soil** No information available.

**12.5. Results of PBT and vPvB assessment**

**PBT and vPvB assessment** No information available.

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Dispose of in accordance with federal, state and local regulations. Do not reuse empty containers.

**SECTION 14: Transport information****IATA**

**14.1 UN number or ID number** Not regulated

**14.2 UN proper shipping name** Not regulated

|             |   |                          |
|-------------|---|--------------------------|
| 14.3        | Transport hazard class(es)                              | Not regulated            |
| 14.4        | Packing group   | Not regulated            |
| 14.5        | Environmental hazards                                   | Not applicable           |
| 14.6        | Special precautions for user                            |                          |
|             | Special Provisions                                      | None                     |
| <b>IMDG</b> |   |                          |
| 14.1        | UN number or ID number                                  | Not regulated            |
| 14.2        | UN proper shipping name                                 | Not regulated            |
| 14.3        | Transport hazard class(es)                              | Not regulated            |
| 14.4        | Packing group   | Not regulated            |
| 14.5        | Environmental hazards                                   | Not applicable           |
| 14.6        | Special precautions for user                            |                          |
|             | Special Provisions                                      | None                     |
| 14.7        | Maritime transport in bulk according to IMO instruments | No information available |
| <b>RID</b>  |   |                          |
| 14.1        | UN number or ID number                                  | Not regulated            |
| 14.2        | UN proper shipping name                                 | Not regulated            |
| 14.3        | Transport hazard class(es)                              | Not regulated            |
| 14.4        | Packing group   | Not regulated            |
| 14.5        | Environmental hazards                                   | Not applicable           |
| 14.6        | Special precautions for user                            |                          |
|             | Special Provisions                                      | None                     |
| <b>ADR</b>  |   |                          |
| 14.1        | UN number or ID number                                  | Not regulated            |
| 14.2        | UN proper shipping name                                 | Not regulated            |
| 14.3        | Transport hazard class(es)                              | Not regulated            |
| 14.4        | Packing group   | Not regulated            |
| 14.5        | Environmental hazards                                   | Not applicable           |
| 14.6        | Special precautions for user                            |                          |
|             | Special Provisions                                      | None                     |

## SECTION 15: Regulatory information

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

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### Persistent Organic Pollutants

Not applicable

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

**International Inventories**

|                      |                |
|----------------------|----------------|
| <b>TSCA</b>          | Not determined |
| <b>DSL/NDL</b>       | Not determined |
| <b>EINECS/ELINCS</b> | Not determined |
| <b>ENCS</b>          | Not determined |
| <b>IECSC</b>         | Not determined |
| <b>KECI</b>          | Not determined |
| <b>PICCS</b>         | Not determined |
| <b>AIIC</b>          | Not determined |

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECI** - Korean Existing Chemicals Inventory  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AIIC** - Australian Inventory of Industrial Chemicals

**15.2. Chemical safety assessment**

**Chemical Safety Report** No information available

**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet****Legend**

SVHC: Substances of Very High Concern for Authorization:

**Legend Section 8: Exposure controls/personal protection**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | Sk*  | Skin designation                 |

**Revision date** 07-Jun-2024

**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)****Disclaimer**

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**End of Safety Data Sheet**