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## MATERIAL SAFETY DATA SHEET

**NOT FOR HUMAN USE. FOR RESEARCH APPLICATIONS ONLY.**

### MSDS

#### 1) Identification of substances/preparation and of the company

##### Product information

Trade name: Set of 4 deoxyribonucleoside phosphoramidites  
<sup>13</sup>C<sup>15</sup>N-labelled  
Article No.: 126606100, 126606200  
Manufacturer: Silantes GmbH  
Gollierstr. 70c  
D-80339 Munich  
Tel.: +49(0)89 500 941 0  
Fax: +49(0)89 500 941 29  
E-mail: [info@silantes.com](mailto:info@silantes.com)

#### 2) Composition/Information on ingredients

##### Chemical characterization:

This is a set of 4 deoxynucleoside phosphoramidites chemically obtained from deoxynucleoside derived from <sup>13</sup>C<sup>15</sup>N-labelled *Ralstonia eutropha* DNA.

##### Content:

Highly purified deoxynucleoside phosphoramidites, dried in high vacuum using phosphorpentoxid, packed under argon.

##### Hazardous contents:

Not applicable

#### 3) Possible risks

##### Indication of danger:

Not hazardous products within the meaning of Guideline 67/548/EEC.

##### Special hazard warning for humans and environment:

The product is exempt from the specific labeling requirements on the basis of the calculation procedures of the "General Classification Guidelines for Preparations in the EU" in the latest valid version.

##### Additional information:

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Chemicals are by their nature hazardous substances. They are therefore only to be handled by appropriately trained personnel exercising the necessary diligence.

### **4) First aid measures**

**General instructions:** Remove clothing contaminated with product immediately.

**Inhalation:** Inhale fresh air.

**Skin contact:** Wash off immediately with soap and a lot of water.

**Contact with eyes:** Lift eyelids and rinse eyes for 10 minutes under running water. Seek medical attention if discomfort continues.

**Ingestion:** Rinse out mouth and have affected person drink a glass of water. Do not induce vomiting. If discomfort continues, consult a medical doctor.

### **5) Fire fighting measures**

Not applicable.

### **6) Measures in case of accidental release**

**Environmental measures:** Do not allow to enter the canalization/surface water/ground water systems.

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment.

**Cleansing/absorption procedures:** Absorb mechanically. Put in the suitable and close containers for the disposal.

### **7) Handling and storage**

#### **Handling:**

**Instructions for safe handling:** In accordance with laboratory guidelines of Employers' Accident Liability Insurance Association (BG-Chemie).

**Instructions on fire and explosion protection:** Keep product and empty container away from heat and sources of ignition.

#### **Storage:**

**Requirements for storage areas and containers:** Keep containers in a dry and cool (-20°C) place.

**Storage with other substances:** Store separately from foodstuffs.

**Further information on storage requirements:** Store in well sealed containers.

**Storage category:** LGK 10-13, other liquids and solids.

**Classification according to the Ordinance on Industrial Safety and Health:** (Betriebssicherheitsverordnung, BetrSichV).

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### 8) Exposure controls and personal protective equipment

**Additional instructions regarding the organization of technical facilities:** No further particulars, see item 7.

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

**Personal protective equipment:**

**General protective and hygiene measures:** Keep separate from foodstuffs, beverages and animal feed.

Immediately remove soiled or saturated clothing.

Wash hands before breaks and after finishing work.

Avoid contact with the eyes and skin.

**Hand protection:**

**Protective gloves:** In the absence of tests no recommendation as to the glove material can be made when handling the product.

**Glove material:** The choice of a suitable glove depends not only on the material, but also on other quality characteristics and varies from manufacturer to manufacturer. Since the product is a preparation made up of several substances, the reliability of glove material cannot be predicted in advanced and must therefore be tested before being put into use.

**Penetration time of the glove material:** Information about the exact penetration time has to be obtained from the manufacturer and must be observed.

**Eye protection:** Tight-fitting protective goggles.

### 9) Physical and chemical properties

**General information**

**Form:** powder

**Colour:** colourless

**Odour:** none

**Change in state**

**Melting point/melting range:** Not determined.

**Boiling point/boiling range:** Not determined.

**Flash point:** No information available.

**Igniting temperature:** No information available.

**Self-igniting:** No information available.

**Danger of explosion:** The product does not present an explosion hazard.

**Solubility:** Insoluble in water.

**Density:** Not determined.

### 10) Stability and reactivity



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**Thermal decomposition:** Stable under given storage conditions.

**Substances to be avoided:** Strong oxidizing agents (acids, bases).  
Water.

**Dangerous reactions:** None under normal processing.

**Dangerous decomposition products:** None under normal use conditions.

### 11) Toxicological information

**Acute toxicity:**

**Classification relevant LD/LC50 values:** We have no quantitative data on the toxicity of this product.

**Primary irritant effect:**

**on the skin:** No information available.

**on the eye:** No information available.

**after inhalation:** No information available.

**sensitization:** No information available.

**Further information:** The product is to be handled with the care necessary when dealing with chemicals.

### 12) Ecological information

**Ecotoxic effects:**

**Aquatic toxicity:** We have no quantitative data on the ecological effects of this product.

**General information:** Water hazard class 1 (self estimate): low water hazard. Not to be allowed to enter into groundwater, watercourses or canalization.

### 13) Waste disposal

**Product:**

**Recommendation:**

Waste disposal requirements vary among the federal states and local councils, so that inquiries should be made about the type of waste disposal at the local authority in question.

**Soiled packaging:**

**Recommendation:** Disposal according to official regulations.

### 14) Transport information

**Land transport ADR/RID and GGVS/GGVE (crossborder/inland):**

**ADR/RID-GGVS/E Class:**

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**Remarks:** Not subject to transport regulations.

### **15) Regulations**

**Identification according to EEC guidelines:**

According to EEC guidelines/GefStoffV, there are no specific identification requirements for the product.

**National regulations:**

**Classification according to the Ordinance on Industrial Safety and Health:** (Betriebssicherheitsverordnung, BetrSichV).

**Water hazard class:** Water hazard class 1 (self estimate): low water hazard.

### **16) Other information**

Information is based on our present knowledge; this shall not constitute a guarantee for any product features nor establish a contractual legal relationship.

**Datasheet-issuing department:** Product management  
**Contact person:** Dr. Heumann