

# Safety data sheet according to 1907/2006/EC, Article 31

Revision: 22.09.2013

nting date 22.09.2015	<i>Kevision: 22.09.201</i>
Identification of the substance/mixture and of the company/underte	aking
1.1 Product identifier	
Trade name: <u>Spacer-CE Phosphoramidite C3</u> 3-(4,4'-Dimethoxytrityloxy)propyl-1-[(2-cyanoethyl)-(N,N-diisopro	pyl)]- phosphoramidite
Article number: 2430 1.2 Relevant identified uses of the substance or mixture and uses advised agains No further relevant information available. Application of the substance / the preparation Chemical for research, development, manufacturing and analysis	st
<b>1.3 Details of the supplier of the safety data sheet</b> <i>Manufacturer/Supplier:</i> <i>Biosolve B.V.</i>	
Leenderweg 78, 5555 CE Valkenswaard, the Netherlands. Tel: +31-(0)40-2071300	
Fax:+31-(0)40-2048537 Email: info@biosolve-chemicals.com	
Biosolve Chimie 20 Rue Roger Husson, 57260 Dieuze, France Tel: +33 3 878 675 80/81/82/83/84/85 Email: info@biosolvechimie.com	
Bio-Lab Ltd. POB 34038, Jerusalem 91340, Israel Tel: + 972 -2- 584 1111 Fax: + 972 -2- 584 1110 Email: info@biolab-chemicals.com	
<b>Further information obtainable from:</b> Product safety department <b>1.4 Emergency telephone number:</b> During normal opening times: +972 2 584 11	11
Hazards identification	
<b>2.1 Classification of the substance or mixture</b> <b>Classification according to Regulation (EC) No 1272/2008</b> The substance is not classified according to the CLP regulation.	
Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not a Information concerning particular hazards for human and environment: Not approximately the second	
2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Void Hazard pictograms Void Signal word Void Hazard statements Void	
• Hazara statements Void • 2.3 Other hazards • Results of PBT and vPvB assessment • PBT• Not applicable	

- *PBT:* Not applicable. *vPvB:* Not applicable.

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#### 3 Composition/information on ingredients

· 3.1 Chemical characterization: Substances

• CAS No. Description Spacer-CE Phosphoramidite C3 3-(4,4'-Dimethoxytrityloxy)propyl-1-[(2-cyanoethyl)-(N,N-

- diisopropyl)]- phosphoramidite
- · Identification number(s) Not available

### 4 First aid measures

- 4.1 Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

#### **5** Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

#### **6** Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions: No special measures required.
- · 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- 6.4 Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

#### 7 Handling and storage

- · 7.1 Precautions for safe handling No special measures required.
- · Information about fire and explosion protection: No special measures required.

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 $\label{eq:constraint} 3-(4,4'-Dimethoxytrityloxy) propyl-1-[(2-cyanoethyl)-(N,N-diisopropyl)]-\ phosphoramidite$ 

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- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- *Requirements to be met by storerooms and receptacles:* Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: under -18 °C
- · Information about storage in one common storage facility: Not required.

· Further information about storage conditions: None.

· 7.3 Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

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

- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · 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:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  $\cdot$  *Material of gloves* 

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

· Penetration time of glove material

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

• Eye protection: Not required.

#### 9 Physical and chemical properties · 9.1 Information on basic physical and chemical properties · General Information · Appearance: Form: Solid Whitish Colour: Characteristic · Odour: · Odour threshold: Not determined. · pH-value: Not applicable. · Change in condition *Melting point/Melting range:* Undetermined. Boiling point/Boiling range: Undetermined. (Contd. on page 4)



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		(Contd. of page 3
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Product is not flammable.	
· Ignition temperature:		
Decomposition temperature:	Not determined.	
· Self-igniting:	Not determined.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapour pressure:	Not applicable.	
· Density:	Not determined.	
Relative density	Not determined.	
· Vapour density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
water:	Not determined.	
· Partition coefficient (n-octanol/wa	t <b>er):</b> Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· 9.2 Other information	No further relevant information available.	
· Molecular Weight	138.06	
· Molecular Formula	C33H43N2O5P	

## **10 Stability and reactivity**

- · 10.1 Reactivity
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- $\cdot$  10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- $\cdot$  10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

### **11 Toxicological information**

· 11.1 Information on toxicological effects

· Acute toxicity:

- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.

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• Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

## **12 Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

### **13 Disposal considerations**

· 13.1 Waste treatment methods

- Recommendation Smaller quantities can be disposed of with household waste.
- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
• 14.7 Transport in bulk according to Annex II oj MARPOL73/78 and the IBC Code	f Not applicable.

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## **15 Regulatory information**

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

## **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.

- · Department issuing MSDS: Product safety department
- · Contact: Product safety department
- · Abbreviations and acronyms:
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- CAS: Chemical Abstracts Service (division of the American Chemical Society)

#### Annex: Exposure scenario

- · Description of the activities / processes covered in the Exposure Scenario
- See section 1 of the annex to the Safety Data Sheet.
- · Conditions of use
- · Duration and frequency 5 workdays/week.
- · Physical parameters
- · Physical state Solid
- · Concentration of the substance in the mixture Raw material.
- Other operational conditions
- · Other operational conditions affecting environmental exposure No special measures required.
- Other operational conditions affecting consumer exposure Not required.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- · Risk management measures
- · Worker protection
- · Organisational protective measures No special measures required.
- · Technical protective measures No special measures required.
- · Personal protective measures No special measures required.
- Measures for consumer protection No special measures required.
- Environmental protection measures
- · Air No special measures required.
- · Water No special measures required.
- Disposal measures Ensure that waste is collected and contained.
- · Disposal procedures Dispose of product residues with household waste.
- · Waste type Partially emptied and uncleaned packaging
- · Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.
- · Guidance for downstream users No further relevant information available.

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