

part of Maravai LifeSciences

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) and Canadian Workplace Hazardous Material Information System (WHMIS 2015)

Revision date 06-Jun-2024

Revision Number 1

1. Identification

Product identifier

Product Catalog Number:	Product Description:	
10-1913-XX	3-(4,4'-Dimethoxytrityloxy)propyl-1-[(2-cyanoethyl)-(N,N-diisopropyl)]-] phosphoramidite	
	phosphoramidite	
Product Code(s)	Product Name	
10-1913-XX	Spacer Phosphoramidite C3	
Other means of identification		
Synonyms	None	
Registration Number(s)	CAS: 110894-23-0	
Recommended use of the chemical and restrictions on use		
Recommended use	For research use only	
Restrictions on use	Not for human diagnostic use	
Details of the supplier of the safety data sheet		
Manufacturer Address		
Glen Research LLC 22825 Davis Drive		
Sterling, VA 20164 USA		
Emergency telephone number		
Company Phone Number	1-703-437-6191	
Website	www.glenresearch.com	
E-mail address	support@glenresearch.com	

2. Hazard(s) identification

Classification

This product is not considered hazardous by either the US 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) or the Canadian Workplace Hazardous Material Information System (WHMIS 2015)

Appearance Oil

Physical state Liquid

Odor Odorless

Label elements

Hazard statements

This product is not considered hazardous by either the US 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) or the Canadian Workplace Hazardous Material Information System (WHMIS 2015)

Other information No information available.

3. Composition/information on ingredients

Substance

Formula

C33H43N2O5P

Chemical name	CAS No.	Weight-%	Information Review	Date HMIRA filed and date exemption granted (if applicable)
3-(4,4'-Dimethoxytrityloxy)propyl-1- [(2-cyanoethyl)-(N,N-diisopropyl)]- phosphoramidite	110894-23-0	100	-	-

The product contains no substances which at their given concentration, are considered to be hazardous to health.

4. First-aid measures

Description of first aid measures

General advice	This product presents no hazards under normal conditions of use.	
Inhalation	Not an expected route of exposure. IF exposed or concerned: Get medical advice/attention.	
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
Skin contact	Wash skin with soap and water. Get medical attention if symptoms occur.	
Ingestion	Not an expected route of exposure. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

5. Fire-fighting measures 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.
Specific hazards arising from the chemical	No information available.
Hazardous combustion products	Nitrogen oxides (NOx). Carbon oxides. Phosphorus oxides.
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	t None. None.
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures			
Personal precautions	Ensure adequate ventilation. Use personal protective equipment as required.		
For emergency responders	Use personal protective equipment as required.		
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.		

7. Handling and storage

Engineering controls

Precautions for safe handling		
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep at temperatures between -10 and -30 °C. Keep containers tightly closed in a dry, cool and well-ventilated place.	
Packaging materials	Glass. Plastic container.	

8. Exposure controls/personal protection

Showers

Eyewash stations

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
Appropriate engineering controls	

Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection	If splashes are likely to occur:. Wear safety glasses with side shields (or goggles).
Hand protection	No special protective equipment required.
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.
Other protective equipment	No information available.
Environmental exposure controls	Avoid creating dust. Prevent product from entering drains.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.
Thermal hazards	No information available.

9. Physical and chemical properties

Liquid Density

Information on basic physical and chemical properties

information on basic physical and c		
Physical state	Liquid	
Appearance	Oil	
Color	Colorless to Light Yellow	
Odor	Odorless	
Odor threshold	No information available	
Property	Values	Remarks • Method
рН	No data available	No data available
Melting point / freezing point	No data available	No data available
Initial boiling point and boiling range		No data available
Flash point	No data available	No information available
Evaporation rate	No data available	None known
Flammability	No data available	No information available
Flammability Limit in Air		No information available
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	No information available
Relative vapor density	No data available	No information available
Relative density	~1	None known
Water solubility	No data available	None known
Solubility in other solvents	No data available	No information available
Partition coefficient	No data available	No information available
Autoignition temperature	No data available	No information available
Decomposition temperature	No data available	No data available
Kinematic viscosity	No data available	No data available
Dynamic viscosity	No data available	No data available
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening point	No information available	
Molecular weight	578.69	
VOC content	No information available	

No information available

Bulk density

No information available

10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.

Hazardous decomposition products None under normal use conditions.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Specific test data for the substance or mixture is not available.		
Eye contact	Specific test data for the substance or mixture is not available.		
Skin contact	Specific test data for the substance or mixture is not available.		
Ingestion	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			
Skin corrosion/irritation	No information available.		
Serious eye damage/eye irritation	No information available.		
Respiratory or skin sensitization	No information available.		

No information available.

Carcinogenicity	No information available.

Germ cell mutagenicity

Reproductive toxicity No information available.

STOT - single exposure	No information available.			
STOT - repeated exposure	No information available.			
Aspiration hazard	No information available.			
12. Ecological information				
Ecotoxicity	The environmental impact of this product has not been fully investigated.			
Persistence and degradability	No information available.			
Bioaccumulation	There is no data for this product.			
Mobility in soil	No information available.			
Other adverse effects	No information available.			

13. Disposal considerations

Disposal 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.

14. Transport information

<u>DOT</u>	This product is not classified as dangerous goods, per U.S. DOT regulations under 49 CFR 172.101
IATA_	This product is not classified as Dangerous Goods, by rules of IATA.
IMDG	This product is not classified as Dangerous Goods by the International Maritime Organization.

15. Regulatory information

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

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA	Not determined.
DSL/NDSL	Not determined.
EINECS/ELINCS	Not determined.
ENCS	Not determined.
IECSC	Not determined.
KECI	Not determined.
PICCS	Not determined.
AIIC	Not determined.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - 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
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AIIC - Australian Inventory of Industrial Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information							
NFPA HMIS	Health hazards 0 Health hazards 0	Flammability Flammability		Instability 0 Physical hazards 0	Special hazards $\ \ -$ Personal protection $\ \ X$		
Key or legend to	o abbreviations and acronyms	used in the safe	ety data	sheet			
<u>Legend Section</u> TWA Ceiling	<u>8: Exposure controls/personal protection</u> TWA (time-weighted average) Maximum limit value		STEL Sk*	STEL (Short Term Skin designation	STEL (Short Term Exposure Limit) Skin designation		
Revision date	06-Jun-20	24					
pertains only to	provided herein is based on s the material designated. Glen	No information available ein is based on sources believed to be relia esignated. Glen Research LLC makes no w		o warranty or representation	on to its completeness,		

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