

part of Maravai LifeSciences

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 07-Jun-2024

Revision Number 1

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

1.1. Product identifier

Product Catalog Number:	Product Description:	
10-3517-XX	5'-O-(4,4'-Dimethoxytrityl)-1'-(1,3-diaza-2-oxophenoxazin-1-yl)-	
	2'-O-TBDMS-β-D-ribofuranosyl-3'-[(2-cyanoethyl)- (N,N-diisopropyl)]-phosphoramidite	
	((1,14-dilsopropy))-prosprioramidite	
Product Code(s)	Product Name	
10-3517-XX	Ribo-tC° Phosphoramidite	
Pure substance/mixture	Substance	
Formula	C51H64N5O9PSi	
Molooular weight	950.16	
Molecular weight	950.10	
1.2. Relevant identified uses of the	substance or mixture and uses advised against	
Recommended use	For research use only	
Lices advised equinat	Not for human diagnostic use	
Uses advised against	Not for human diagnostic use	
1.3. Details of the supplier of the sa	fety data sheet	
For further information, please contact	<u>t</u>	
E-mail address	support@glenresearch.com	
Website	www.glenresearch.com	
Company Phone Number	1-703-437-6191	
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1.4 Emorgonov tolonhono zverkoz		
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	EC No (EU	Classification according	Specific	M-Factor	M-Factor
		number	Index No)	to Regulation (EC) No.	concentration		(long-term)
				1272/2008 [CLP]	limit (SCL)		
5'-O-(4,4'-Dimethox	100	No data available	-	No data available	-	-	-
ytrityl)-1'-(1,3-diaza-							
2-							
oxophenoxazin-1-yl)							
-2'-O-TBDMS-β-D-							
ribofuranosyl-3'-[(2-							
cyanoethyl)-							
(N,N-diisopropyl)]-p							
hosphoramidite							
1188522-62-4							

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 >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. 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.	
4.2. Most important symptoms and effects, both acute and delayed		

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	e 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.
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 contai	nment 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 Ensure adequate ventilation. Use personal protection equipment. Wash thoroughly after handling. General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. 7.2. Conditions for safe storage, including any incompatibilities_

Storage Conditions	Keep container tightly closed in a dry and well-ventilated place.
<u>7.3. Specific end use(s)</u> Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.
SECTION 8: Exposure con	trols/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 li This product, as supplied, does not co regulatory bodies.	imits Intain any hazardous materials with biological limits established by the region specific
Derived No Effect Level (DNEL) Predicted No Effect Concentration (PNEC)	No information available. 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	Powder		
Color	Yellow		
Odor	Odorless		
Odor threshold	No information available		
Droporty	Values	Domorko - Mothod	
<u>Property</u> Melting point / freezing point	<u>Values</u> No data available	Remarks • Method No data available	

Initial boiling point and boiling rang		No data available
Flammability	No data available	No information available
Flammability Limit in Air	No data available	No information available
Upper flammability or explosive limits	No data avallable	
Lower flammability or explosive	No data available	
limits	NO UALA AVAIIADIE	
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	950.16	
9.2.1 Information with regard to ph	veical bazard classos	

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 Sensitivity to static discharge	None. 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 proc	ducts_	

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

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.	
wentoms related to the physical, chemical and toxicological characteristics		

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No	o information available.
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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.	
Germ cell mutagenicity	No information available.	
Carcinogenicity	No information available.	
Reproductive toxicity	No information available.	
STOT - single exposure	No information available.	
STOT - repeated exposure	No information available.	
Aspiration hazard	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 in	nformation			
<u>12.1. Toxicity</u>				
Ecotoxicity	The environmental impact of this product has not been fully investigated.			
12.2. Persistence and degradability	<u> </u>			
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 ass	essment			
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

<u>IATA</u>

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
14.3	Transport hazard class(es)	Not regulated

14.5 14.6	Environmental hazards Special precautions for user	Not applicable
-	pecial Provisions	None
IMDO		
14.1	UN number or ID number	Not regulated
14.2		Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4		Not regulated
	Environmental hazards	Not applicable
	Special precautions for user	
	pecial Provisions	None
	Maritime transport in bulk	No information available
acco	rding to IMO instruments	
RID		
14.1	UN number or ID number	Not regulated
14.2	•••••••••••••••••••••••••••••••••••••••	Not regulated
14.3		Not regulated
14.4		Not regulated
14.5		Not applicable
14.6	Special precautions for user	
S	pecial Provisions	None
ADR		
14.1	UN number or ID number	Not regulated
14.2		Not regulated
14.3		Not regulated
14.4 14.5	· · · · · · · · · · · · · · · · · · ·	Not regulated
14.5 14.6		Not applicable
	Special precautions for user pecial 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	
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

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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