

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 25-Jun-2024

### Revision Number 1

### 1. Identification

Product identifier

Product Catalog Number:	Product Description:	
10-5923-XX	6-[2,3,6,7,12,13,16,17-Octohydro-1H,5H,11H,15H-Xantheno [2,3,4-ij:5,6,7-i'j']diquinolizin-18-ium-9-yl-[(2-diethylaminocarbonyl)-phen-4-yl] [trifluoroacetylaminobutoxy]phosphoryl][oxy]]-hexyl-1-O-(2-cyanoethyl)- (N,N-diisopropyl)-phosphoramidite, hexafluorophosphate salt	
Product Code(s) 10-5923-XX	Product Name 5'-AquaPhluor® 593 CE Phosphoramidite	
Other means of identification		
Synonyms	None	
Registration Number(s)	CAS: 2378004-17-0	
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 Powder	Physical state Solid	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

### C57H78F9N6O8P3

Chemical name	CAS No.	Weight-%	Information Review	Date HMIRA filed and date exemption granted (if applicable)
6-[2,3,6,7,12,13,16,17-Octohydro- 1H,5H,11H,15H-Xantheno[2,3,4-ij:5,6,7-i'j'] diquinolizin-18-ium-9-yl-[(2-diethylamino carbonyl)-phen-4-yl][trifluoroacetylamino butoxy]phosphoryl][oxy]]-hexyl-1-O- (2-cyanoethyl)-(N,N-diisopropyl)- phosphoramidite, hexafluorophosphate salt	2378004-17-0	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	ct 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			
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

### 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

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch 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

### Information on basic physical and chemical properties

Physical state	Solid	
Appearance	Powder	
Color	Dark Purple	
Odor	Odorless	
Odor threshold	No information available	
Property	<u>Values</u>	Remarks • Method
рН	No data available	No data available
Melting point / freezing point	No data available	No data available
Initial boiling point and boiling rang	eNo data available	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
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Other information	
Explosive properties	No information available
Oxidizing properties	No information available
Softening point	No information available
Molecular weight	1239.17
VOC content	No information available
Liquid Density	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, c	hemical and toxicological characteristics
Symptoms	No information available.
Acute toxicity	
Numerical measures of toxicity No information available	
Delayed and immediate effects as w	ell 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.
12. Ecological information	
Ecotoxicity	The environmental impact of this product has not been fully investigated.
Ecotoxicity	The environmental impact of this product has not been fully investigated.
Ecotoxicity Persistence and degradability	The environmental impact of this product has not been fully investigated. 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	ation	informa	port	Trans	14.
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DOT	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

<u>NFPA</u> HMIS	Health hazards 0 Health hazards 0	Flammability 0 Flammability 0	Instability 0 Physical hazards 0	Special hazards - Personal protection
Key or legend t	o abbreviations and acronyms	used in the safety data	sheet	
, ,	8: Exposure controls/personal p			
TWA	TWA (time-weighted average)		STEL (Short Terr	n Exposure Limit)
			<b>-</b>	
Ceiling	Maximum limit value	Sk*	Skin designation	
0	Maximum limit value 25-Jun-20	_	Skin designation	
Ceiling Revision date Revision Note Disclaimer	25-Jun-20	_	Skin designation	

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