

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 11-Jun-2024

Revision Number 1

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

1.1. Product identifier

13-1230-XX 5'-Dimethoxytrityl-N2-isobutyryl-2'-deoxyGuanosine-3'-> 5'-o-chlorophenyl-phosphoryl-2'-deoxyThymidine-3'-> 5'-o-chlorophenyl-phosphoryl-Phosphoryl-2'-deoxyAdenosine- 3'-[(2-cyanoethyl)-(hN-diisopropyl)]-phosphoramidite Product Code(s) 13-1230-XX Product Name GTA Trimer Phosphoramidite Pure substance/mixture Formula Substance C83H89Cl2N14O21P3 Molecular weight 1780.50 1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended use For research use only Uses advised against Not for human diagnostic use 1.3. Details of the supplier of the safety data sheet For further information, please contact E-mail address support@glenresearch.com Website www.glenresearch.com Company Phone Number 1-703-437-6191	Product Catalog Number:	Product Description:	
6'-o-chlorophenyl-phosphoryl-N6-benzoyl-2'-deoxyAdenosine- 3'-[(2-cyanoethyl)-(N,N-diisopropyl)]-phosphoramidite Product Code(s) 13-1230-XX Product Name GTA Trimer Phosphoramidite Pure substance/mixture Formula Substance C83H89Cl2N14O21P3 Molecular weight 1780.50 1.2. Relevant identified uses of the substance or mixture and uses advised against_ Recommended use For research use only Uses advised against Not for human diagnostic use 1.3. Details of the supplier of the safety data sheet_ For further information, please contact_ E-mail address support@glenresearch.com Website www.glenresearch.com	13-1230-XX		
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1.2. Relevant identified uses of the substance or mixture and uses advised againstRecommended useFor research use onlyUses advised againstNot for human diagnostic use1.3. Details of the supplier of the safety data sheetFor further information, please contactE-mail addresssupport@glenresearch.comWebsitewww.glenresearch.com	Formula	C83H89Cl2N14O21P3	
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For further information, please contact E-mail address support@glenresearch.com Website www.glenresearch.com	Uses advised against	Not for human diagnostic use	
E-mail address support@glenresearch.com Website www.glenresearch.com	1.3. Details of the supplier of th	ne safety data sheet	
Website www.glenresearch.com	For further information, please co	ontact	
	E-mail address	support@glenresearch.com	
Company Phone Number 1-703-437-6191	Website	www.glenresearch.com	
	Company Phone Number	1-703-437-6191	

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 number	· ·	Classification according to Regulation (EC) No.	•	M-Factor	M-Factor (long-term)
				1272/2008 [CLP]	limit (SCL)		
5'-Dimethoxytrityl-N	100	No data available	-	No data available	-	-	-
2-isobutyryl-2'-deox							
yGuanosine-							
3'->5'-o-chloropheny							
I-phosphoryl-							
2'-deoxyThymidine-							
3'->5'-o-chloropheny I-							
phosphoryl-N6-benz							
oyl-2'-deoxyAdenosi							
ne-							
3'-[(2-cyanoethyl)-(N							
,N-diisopropyl)]-							
phosphoramidite							
N/A							

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

Symptoms	No information available.
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gear.

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 th	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 g 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 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.	
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

Advice on 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.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/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 limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

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 propertiesPhysical stateSolidAppearancePowderColorWhite to off-white

Odor Odor threshold	Odorless No information available	
<u>Property</u> Melting point / freezing point Initial boiling point and boiling rang Flammability Flammability Limit in Air Upper flammability or explosive limits	<u>Values</u> No data available e No data available No data available No data available	Remarks • Method No data available No data available No information available No information available
Lower flammability or explosive limits	No data available	
Flash point Autoignition temperature	No data available No data available	No information available No information available No data available
Decomposition temperature pH pH (as aqueous solution)	No data available No data available	No data available No information available
Kinematic viscosity Dynamic viscosity Water solubility	No data available No data available No data available	No data available No data available None known
Solubility(ies) Partition coefficient	No data available No data available	No information available No information available
Vapor pressure Relative density Bulk density	No data available ~1 No data available	No information available None known
Liquid Density Relative vapor density	No data available No data available	No information available
Particle characteristics Particle Size Particle Size Distribution	No information available No information available	
9.2. Other information Molecular weight	1780.50	

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 None. Sensitivity to static discharge 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 products

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.
Symptoms related to the physical, of	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.	
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 prope	rties			
Endocrine disrupting properties	No information available.			
11.2.2. Other information				
Other adverse effects	No information available.			
SECTION 12: Ecological in	formation			
12.1. Toxicity				
Ecotoxicity	The environmental impact of this product has not been fully investigated.			
12.2. Persistence and degradability	_			
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 asse	<u>ssment</u>			
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 con	siderations			
13.1. Waste treatment methods				

Waste from residues/unused
productsDispose of in accordance with local regulations. Dispose of waste in accordance with
environmental legislation.Contaminated packagingDispose of in accordance with federal, state and local regulations. Do not reuse empty
containers.

SECTION 14: Transport information

IATA 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions	Not regulated Not regulated Not regulated Not applicable None
IMDG14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing group14.5Environmental hazards14.6Special precautions for user Special Provisions14.7Maritime transport in bulk according to IMO instruments	Not regulated Not regulated Not regulated Not regulated Not applicable None No information available
RID14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing group14.5Environmental hazards14.6Special precautions for user Special Provisions	Not regulated Not regulated Not regulated Not applicable None
ADR 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions	Not regulated Not regulated Not regulated Not regulated Not applicable 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
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

Logona	Control of Experience Control of percental protocol		
TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation

Revision date

11-Jun-2024

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Disclaimer

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