

SAFETY DATA SHEET

Revision Date 29-Mar-2024

Revision Number 3

1. Identification

Product Name

Guanosine-5'-triphosphate disodium salt

Cat No. : J61414

CAS No Synonyms

Recommended Use Uses advised against

GTP disodium salt hydrate Laboratory chemicals. Food, drug, pesticide or biocidal product use.

56001-37-7

Details of the supplier of the safety data sheet

Company

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

<u>Classification</u> Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements None required

<u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition/Information on Ingredients

		3000	1-37-7	95	
	1	- irst-aid me	acurac	•	
	4.1	-iist-aiu me	asures		
ye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.				
kin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.				
halation	Remove from	exposure, lie dowr	a. Remove to fresh	air. Get medical attention.	
ngestion	Clean mouth	with water. Get me	dical attention.		
lost important symptoms and ffects	No informatio	n available.			
	Treat sympton	matically			
	5. Fir	e-fighting n	neasures		
uitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.				
Insuitable Extinguishing Media	No information available				
Flash Point Method -	No information available No information available				
	Not applicable				
xplosion Limits					
Upper Lower	No data available No data available				
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	ct No information available No information available				
pecific Hazards Arising from the Cl	hemical				
eep product and empty container awa	ay from heat a	nd sources of ignition	on.		
lazardous Combustion Products litrogen oxides (NOx). Carbon monoxi protective Equipment and Precaution is in any fire, wear self-contained brea protective gear.	ns for Firefig	hters			
IFPA Health 0	Flammabi 1	lity	Instability 0	Physical hazards N/A	
	6. Accid	ental releas	se measures	;	
ersonal Precautions Invironmental Precautions			e personal protectiv plogical Information	e equipment as required.	
		mation. Sweep up enter the environm		able containers for disposal. Do not let	

7. Handling and storage

Handling	Avoid contact with skin and eyes. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance.		
Storage.	Keep in a dry place. Keep container tightly closed. Keep at temperatures below .?1°C. Store in freezer. Store contents under argon. Incompatible Materials. Strong oxidizing agents.		
8. E>	posure controls / personal protection		
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.		
Engineering Measures	None under normal use conditions.		
Personal Protective Equipment			
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.		
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.		
Respiratory Protection	No protective equipment is needed under normal use conditions.		
Recommended Filter type:	Particle filter.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		

9. Physical	and chemical properties
Physical State	Powder Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	180 °C / 356 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C10 H14 N5 Na2 O14 P3 . x H2 O
Molecular Weight	567.14

10. Stability and reactivity

Reactive Hazard

None known, based on information available

Stability	Stable under normal conditions.
Conditions to Avoid	To avoid thermal decomposition, do not overheat. Excess heat. Incompatible products. Exposure to moist air or water.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	s Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO ₂), Oxides of phosphorus
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.
	11. Toxicological information

Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products Delayed and immediate effects as	No acute toxicity information is available for this product No information available well as chronic effects from short and long-term exposure
Irritation	No information available
Sensitization	No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico	
Guanosine	56001-37-7	Not listed	Not listed	Not listed	Not listed	Not listed	
5'-(disodium							
dihydrogen triphosphate)							
Mutagenic Effects		No information available					
Reproductive Effect	productive Effects No information available.						
Developmental Effe	cts	s No information available.					
Teratogenicity		No information available.					
STOT - single expos STOT - repeated exp		None known None known					
Aspiration hazard		No information available					
Symptoms / effects delayed	mptoms / effects,both acute and No information available layed						
Endocrine Disrupto	r Information	nation No information available					
Other Adverse Effects The toxicological properties have not been fully investigated.							

Do not empty into drains.

Persistence and Degradability

Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation	No information available.		
Mobility	Will likely be mobile in the environment due to its water solubility.		
	13. Disposal considerations		
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.		
	14. Transport information		
DOT	Not regulated		
<u>TDG</u>	Not regulated		
	Not regulated		

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Guanosine 5'-(disodium	56001-37-7	-	-	-
dihydrogen triphosphate)				

15. Regulatory information

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Not regulated

X - Listed

IMDG/IMO

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Guanosine 5'-(disodium	56001-37-7	-	-	259-940-7	-	-		-	Х	-
dihydrogen triphosphate)										

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. 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)	Not applicable
Clean Air Act	Not applicable

OSHA - Occupational Safety and Not applicable Health Administration

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.

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	· · · · · J · · · · · · · · · · · · · ·	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Guanosine 5'-(disodium dihydrogen triphosphate)	56001-37-7	-	-	-

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Guanosine 5'-(disodium dihydrogen triphosphate)	56001-37-7	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Guanosine 5'-(disodium	56001-37-7	Not applicable	Not applicable	Not applicable	Not applicable

dihydrogen triphosphate)				
	dihydrogen triphosphate)			

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Revision Date Print Date Revision Summary	29-Mar-2024 29-Mar-2024 New emergency telephone response service provider.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS