Safety Data Sheet

1. Product and company identification

Product name	:	Guanosine
Name of manufacturer	:	KANTO CHEMICAL CO., INC.
Address	:	2-1, Nihonbashi, Muromachi 2-Chome, Chuo-Ku, Tokyo, 103-0022, Japan
Name of section	:	Reagent division, catalog and products information section
Telephone number	:	+81-3-6214-1090
Facsimile number	:	+81-3-3241-1047
Mail address	:	BC32@gms.kanto.co.jp
SDS No.	:	17057

2. Summary of danger and Hazard

GHS classification	:	GHS classification is "Out of category" or "Classification not possible".

3. Composition/Information on ingredients

Substance/Mixture	:	Substance
Chemical name or commercial name	:	Guanosine
Synonyms	:	Guanine riboside
Ingredients and composition	:	Guanosine min. 98.0%
Chemical formula	:	C10H13N5O5
CAS No.	:	118-00-3
TSCA Inventory	:	Registered
EINECS No.	:	2042278

4. First aid measures

Inhalation	:	Remove the victim to fresh air, and make him blow his nose and gargle.
Skin contact	:	Wash the affected areas under running water.
Eye contact	:	Wash the affected areas under running water for at least 15 minutes. Get medical treatment.
Ingestion	:	Give the victim water. If necessary, get medical attention.

5. Fire fighting measures

Extinguishing media	:	Water, dry chemical powder, carbon dioxide, dry sand, foam
Prohibited extinguishing media	:	None
Particular fire fighting	:	Move containers from fire area if it can be done without risk, if not possible, apply water from a safe distance to cool and protect surrounding area.
Protection for firefighters	:	Firefighters should wear protective equipment.

6. Accidental release measures

Cautions for personnel : Wear proper protective equipment and avoid contact with skin and inhalation of dust. Conduct operations from upwind and evacuate people downwind.

Cautions for environment : Attention should be given to avoid discharge of spilled product into rivers and resulting environmental damage. When diluting spill with large amounts of water, discharge of untreated wastewater into the environment must be avoided.

Removal measure : Sweep up in a chemical waste container. Flush contaminated area with copious amounts of water.

7. Cautions of handling and storage

Handling

Engineering measures : If necessary, wear proper protective equipment to avoid contact with skin or inhalation of dust.

Cautions for safety handling

: Avoid formation of dust and aerosols.

Incompatibilities : None

Storage

Adequate storage condition

: Store in a dark, cool place and tightly closed.

Safety adequate container materials

: Glass, Fluorine resin, Polyethylene

8. Exposure control/Personal protection

Engineering measures : Use with an enclosed system or a local exhaust ventilation.

Control parameters

ACGIH(2015) : Not established

Protective equipment

Respiration protective equipment

: If necessary, wear dust mask

Hands protective equipment

: Impervious protective gloves

Eyes protective equipment

: Safety goggles

9. Physical and chemical properties

Appearance : Crystalline powder or powder

Color : White

Odor : Not available

pH : Not available

Boiling point : Not available

Melting point : Decomposition(237-240℃)

Flash point : Not available

Auto-ignition point : Not available

Explosion characteristics

Explosion limit	:	Not available
Vapor pressure	:	Not available
Density	:	Not available
Solubility		
Solubility in solvents	:	Water ; 700mg/L (18℃)
log Pow	:	-1.9

10. Stability and reactivity

Stability	:	Stable under normal conditions.
Reactivity	:	May react with oxidizing substances.
Incompatible conditions	:	Light, heat
Incompatible materials	:	Oxidizing substances
Hazardous decomposition products	:	Carbon monoxide, nitrogen oxides

11. Toxicological information

Acute toxicity	:	Oral : Not possible to classify because of insufficient data. Dermal : Not possible to classify because of insufficient data. Inhalation(vapor) : Not possible to classify because of insufficient data. Inhalation(dust, mist) : Not possible to classify because of insufficient data. mouse intravenous LD50=180mg/kg
Skin corrosion/irritation	:	Not possible to classify because of insufficient data.
Serious eye damage/eye irritation	:	Not possible to classify because of insufficient data.
Respiratory sensitization or Skin sensitization	:	Respiratory sensitization : Not possible to classify because of insufficient data. Skin sensitization : Not possible to classify because of insufficient data.
Mutagenicity	:	Not possible to classify because of insufficient data.
Carcinogenic effects	:	Not possible to classify because of insufficient data
Effects on the reproductive system	:	Not possible to classify because of insufficient data.
Specific target organ systemic toxicity single exposure	:	Not possible to classify because of insufficient data.
Specific target organ systemic toxicity repeated exposure	:	Not possible to classify because of insufficient data.
Aspiration hazard	:	Not possible to classify because of insufficient data.

12. Ecological information

Ecotoxicity		
Fish toxicity	:	Acute aquatic toxicity : Not possible to classify because of insufficient data.

Chronic aquatic toxicity : Not possible to classify because of insufficient data.

Persistence and degradability

: Not available

Bioaccumulative potential : Not available

Mobility in soil : Not available

13. Disposal consideration

Residual disposal : Burn in a chemical incinerator equipped with an afterburner and a scrubber. Or entrust approved waste disposal companies with the disposal.

Containers : In case of disposal of empty bottles, dispose bottles after removing the content thoroughly.

14. Transport information

UN class : It is not regulated under UN regulations.

15. Regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. Other information

References Dictionary of Organic Compounds, The society of Synthetic Organic Chemistry, Kodansha Ltd.(1985)

The information contained herein is based on several references and the present state of our knowledge. However the SDS does not always cover all information about the product, handle the product carefully.The information is intended to ordinary usage, in case of particular handlings, conduct appropriate safety measurements.The information herein is only provision of information, and it does not represent a guarantee the properties of the product.The Safety Data Sheet(SDS) is prepared based on JIS Z7253, and it has the same required elements on the Material Safety Data Sheet(MSDS) which is prepared based on JIS Z7250:2010.