Safety Data Sheet

1. Product and company identification

Product name	:	Cytosine
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.	:	07383

2. Summary of danger and Hazard

GHS classification

Physical and chemical hazard

Flammable solids	:	Out of category
Pyrophoric solids	:	Out of category

Human health hazard

Skin corrosion・Irritation : Category 2

Serious eye damage・Eye irritation : Category 2A

Pictogram or symbol



Signal word	:	Warning
Hazard statement	:	Causes skin irritation
		Causes serious eye irritation

Cautions

Safety measurements	:	Wear appropriate protective gloves, glasses, clothing, face shield, or mask.
		Wash protective equipment thoroughly after use.
First-aid measures	:	If in eyes : Rinse cautiously with water for several minutes. Get medical treatment.
		If on skin : Remove contaminated clothing and the substance. If skin irritation occurs, get medical treatment.
		Wash hands thoroughly after handling.

3. Composition/Information on ingredients

Substance/Mixture	:	Substance
Chemical name or commercial name	:	Cytosine
Ingredients and composition	:	Cytosine min. 95.0%

Chemical formula	:	C4H3N2ONH2
CAS No.	:	71-30-7
TSCA Inventory	:	Registered
EINECS No.	:	2007495

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.
Ingestion	:	Give the victim water or salt water and induce vomiting. 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 equipment and avoid contact with skin and inhalation of dust. Keep away personnel except for authorized ones from spillage area by stretching ropes.
Cautions for environment	:	Attention should be given not to cause damage to the environment by flowing of spillage to rivers. In case of the dilution of copious water, do not cause damage to the environment by untreated wastewater.
Removal measure	:	Sweep up the chemical and place in a chemical waste container.

7. Cautions of handling and storage

Handling

Engineering measures	:	If necessary, wear proper protective equipment not to contact with skin or inhale the dust.
Cautions for safety handling	:	Handle the chemical not to generate aerosol or dust.

Storage

Adequate storage condition	:	Store in a dark, cool place and tightly closed.
Safety adequate container materials	:	Glass, polyethylene, polypropylene

8. Exposure control/Personal protection

Engineering measures	:	Use only with adequate ventilation and in closed systems.

Control parameters

ACGIH(2009)	:	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	:	Crystal or powder
Color	:	White - pale yellow
Odor	:	Not available
Boiling point	:	Not available
Melting point	:	Min. 300℃
Flash point	:	Not available
Auto-ignition point	:	Not available
Specific gravity	:	Not available
Solubility		
Solubility in solvents	:	Water ; Practically insoluble
		Organic solvents ; Soluble in methanol.

10. Stability and reactivity

Stability	:	Stable under normal usage.
Reactivity	:	May react with strong 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.
Skin corrosiveness	:	Causes skin irritation(category 2)
		Since causes irritation to the skin, it was classified into category 2.
Irritation to skin, eyes	:	Causes serious eye irritation(category 2A)
		Since causes irritation to the eyes, it was classified into category 2A.
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.

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.

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.

Rediualbility and degradability

: Not available

Ecorediualbility : Not available

13. Disposal consideration

Residual disposal : Mixed with flammable organic solvents and 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.