

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: Cytidine 5'-triphosphate disodium salt

CTP Synonyms:

Company Identification: PI Chemicals Ltd.

Building B, 633 E Shan Road, Pudong New Area

Shanghai 200127, China

86-21-58953700 Telephone Number: Fax Number: 86-21-58953701

Section 2 - Product Information

Catalog Number: PI-13429 CAS Number: 36051-68-0 MDL Number: MFCD00078193 EC Number: 252-849-3

98% Purity:

Section 3 - Physical and Chemical Properties

Physical: **Powder** Color: White

Molecular Formula: $C_9H_{14}N_3Na_2O_{14}P_3$

Molecular Weight: 527.12

Freezing/Melting Point: **Not Available Boiling Point:** Not available

Flash Point: 113 °C (235 °F) - closed cup

Autoignition Temperature: Not available Refractive Index (nD20): Not available Not available Density: Decomposition Temperature: Not available Solubility: Not available

Section 4 - Hazards Identification

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: May be harmful if swallowed.



Section 5 - First Aid Measures

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial

respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Take victim immediately to hospital.

Consult a physician.

In case of eye contact: Flush eyes with water as a precaution.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with

water. Consult a physician.

Section 6 - Stability and Reactivity

Chemical Stability: Stable under recommended storage conditions.

Materials to Avoid: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides (NOx), Oxides of phosphorus,

Sodium oxides.

Hazardous Polymerization: Has not been reported.

Section 7 - Handling and Storage

Handling: Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for

preventive fire protection.

Storage: Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C.

Section 8 - Personal Protection

Eyes: Wear appropriate protective eyeglasses.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Use an approved respirator if exposure limits are exceeded or if irritation or other symptoms

are experienced.

Section 9 - Fire and Explosion Hazard Data

General Information: As in any fire, wear a self-contained breathing apparatus, MSHA/NIOSH

(approved or equivalent) and protective clothing to prevent contact with skin

and eyes.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Section 10 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.



Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

Section 11 - Toxicological Information

RTECS#: CAS# 36051-68-0: Not available.

LD50/LC50: RTECS: Not available.

Carcinogenicity: Cytidine 5'-triphosphate disodium salt

-Not listed as a carcinogen by IARC, NTP, or OSHA.

Section 12 - Environmental information

Not available

Section 13 - Disposal Consideration

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

Section 14 - Transport Information

IATA: Not dangerous goods.IMO: Not dangerous goods.RID/ADR: Not dangerous goods.

Section 15 - Regulatory Information

Hazard Symbols: Xi

Indication of Danger: Irritant

Risk Phrases:

R 36/37/38: Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 36: Wear suitable protective clothing.

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Section 16 - Additional Information

MSDS Creation Date: 6 May, 2010 Update: 5 July, 2011



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