

BIO BASIC INC.

160 Torbay Road, Markham Ontario. L3R 1G6 Canada
Tel: (905) 474 4493, (800) 313 7224 Fax: (905) 474 5794

MATERIAL SAFETY DATA SHEET

REQUIRED UNDER SAFETY AND HEALTH REGULATION FOR SHIP REPAIRING

MANUFACTURER'S NAME: BIO BASIC INC.
TEL: (905) 474 5794
FAX: (416) 995 9730
FOR CHEMICAL EMERGENCY: (416) 995 9730
ADDRESS: 160 Torbay Road, Markham Ontario. L3R 1G6 Canada

SECTION 1. ----- CHEMICAL IDENTIFICATION-----

Product name : Cytidine 5'-monophosphate
Product Number : CD0134M

SECTION 2. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----

Synonyms : 5'-CMP

5'-Cytidylic acid

C-5'-P

Formula : C₉H₁₄N₃O₈P

Molecular Weight : 323.2 g/mol

CAS-No. EC-No. Index-No. Concentration

Cytidine 3'-(dihydrogen phosphate)

63-37-6 200-556-6 - -

SECTION 3. ----- HAZARDS IDENTIFICATION -----

WHMIS Classification

Not WHMIS controlled. Not WHMIS controlled.

HMIS Classification

Health Hazard: 0

Flammability: 0

Physical hazards: 0

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

SECTION 4. ----- FIRST-AID MEASURES-----

If inhaled

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

In case of skin contact

Wash off with soap and plenty of water.

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.

SECTION 5. ----- FIRE FIGHTING MEASURES -----

Flammable properties

Flash point no data available

Ignition

temperature
no data available
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----

Personal precautions
Avoid dust formation.
Environmental precautions
Do not let product enter drains.
Methods for cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal.

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: 2 - 8 °C

SECTION 8. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION-----

Contains no substances with occupational exposure limit values.
Personal protective equipment
Respiratory protection
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection
For prolonged or repeated contact use protective gloves.
Eye protection
Safety glasses
Hygiene measures
General industrial hygiene practice.

SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

Appearance
Form crystalline
Colour white
Safety data
pH no data available
Melting point 222 °C (432 °F) - Decomposes on heating.
Boiling point no data available
Flash point no data available
Ignition
temperature
no data available
Lower explosion
limit
no data available

Upper explosion
limit
no data available
Water solubility no data available

SECTION 10. -----STABILITY AND REACTIVITY -----

Storage stability
Stable under recommended storage conditions.
Materials to avoid
Strong oxidizing agents
Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides

SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

Acute toxicity
no data available
Irritation and corrosion
no data available
Sensitisation
no data available
Chronic exposure
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Genotoxicity in vitro - Human - Other cell types
Other mutation test systems
Potential Health Effects
Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.
Ingestion May be harmful if swallowed.

SECTION 12. ----- ECOLOGICAL INFORMATION -----

Elimination information (persistence and degradability)
no data available
Ecotoxicity effects
no data available
Further information on ecology
no data available

SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

Product
Observe all federal, state, and local environmental regulations.
Contaminated packaging
Dispose of as unused product.

SECTION 14. ----- TRANSPORT INFORMATION -----

DOT (US)
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

SECTION 15. ----- REGULATORY INFORMATION -----

TSCA Status

On TSCA Inventory

DSL Status

This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.

Cytidine 3'-(dihydrogen phosphate)

CAS-No.

63-37-6

WHMIS Classification

Not WHMIS controlled. Not WHMIS controlled.

SECTION 16. ----- OTHER INFORMATION-----

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. BBI., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale