## MATERIAL SAFETY DATA SHEET

Date Printed: 12/11/2008 Date Updated: 01/17/2008 Version 1.4

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Section 1 - Product and Company Information
Product Name
                              THYMIDINE 5'-MONOPHOSPHATE FREE ACID
Product Number
                              T9758
Brand
                              SIGMA
                              Sigma-Aldrich Canada, Ltd
Company
Address
                              2149 Winston Park Drive
                              Oakville ON L6H 6J8 CA
                              9058299500
Technical Phone:
                              9058299292
Fax:
                              800-424-9300
Emergency Phone:
Section 2 - Composition/Information on Ingredient
Substance Name
                                                                SARA 313
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THYMIDINE 5'-MONOPHOSPHATE FREE 365-07-1

C10H15N2O8P Formula Deoxyribosylthymine monophosphate \* Synonyms

Deoxythymidine monophosphate \* Deoxythymidine 5'-monophosphate \* Deoxythymidine 5'-phosphate \* Deoxythymydilic acid \* Deoxy TMP \* dTMP \* 5'-dTMP

\* Thymidine mononucleotide \* Thymidine monophosphate \* Thymidine 5'-monophosphate \* Thymidine-5'-monophosphoric acid \* Thymidine phosphate \* Thymidine 5'-phosphate \* Thymidine 5'-phosphoric acid \* Thymidylic acid \* TMP (nucleotide) \* 5'-TMP XP2090000 RTECS Number: Section 3 - Hazards Identification

HMIS RATING HEALTH: 0

FLAMMABILITY: 0 REACTIVITY: 0 NFPA RATING

For additional information on toxicity, please refer to Section 11. Section 4 - First Aid Measures ORAL EXPOSURE If swallowed, wash out mouth with water provided person is conscious. Call a physician.

HEALTH: 0

DERMAL EXPOSURE

AUTOIGNITION TEMP

appropriate foam.

METHODS FOR CLEANING UP

ENGINEERING CONTROLS

PERSONAL PROTECTIVE EQUIPMENT

type Pl (EN 143) dust masks. Hand: Protective gloves.

Section 9 - Physical/Chemical Properties

N/A

FIREFIGHTING

STORAGE

Appearance

VOC Content

Viscosity

Water Content

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Solvent Content Evaporation Rate

Molecular Weight

Property

рΗ

EYE EXPOSURE

amounts of water.

FLAMMABILITY: 0 REACTIVITY: 0

INHALATION EXPOSURE If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

In case of contact, immediately wash skin with soap and copious

separating the eyelids with fingers. Call a physician. Section 5 - Fire Fighting Measures FLASH POINT N/A

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by

FLAMMABILITY N/A EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions.

PROCEDURE(S) OF PERSONAL PRECAUTION(S) Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

Section 6 - Accidental Release Measures

raising dust. Ventilate area and wash spill site after material pickup is complete. Section 7 - Handling and Storage

User Exposure: Avoid inhalation. Avoid contact with eyes, skin,

and clothing. Avoid prolonged or repeated exposure.

Sweep up, place in a bag and hold for waste disposal. Avoid

Suitable: Keep tightly closed. Store at -20°C Section 8 - Exposure Controls / PPE

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN

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At Temperature or Pressure

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Safety shower and eye bath. Mechanical exhaust required.

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Value

N/A

N/A N/A

N/A N/A

N/A N/A

N/A

322.2 AMU

Eye: Chemical safety goggles. GENERAL HYGIENE MEASURES Wash thoroughly after handling.

Physical State: Solid

(EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or

BP/BP Range MP/MP Range MP/MP Range Freezing Point Vapor Pressure Vapor Density N/A N/A Vapor Density Saturated Vapor Conc. N/A Sulk Density Odor Threshold Volatile% N/A

Decomposition Temp. N/A Flash Point Explosion Limits N/A Flammability N/A Autoignition Temp N/A Refractive Index Optical Rotation N/A Miscellaneous Data N/A Solubility N/A N/A - not available Section 10 - Stability and Reactivity STABILITY Stable: Stable. Materials to Avoid: Strong oxidizing agents. HAZARDOUS DECOMPOSITION PRODUCTS Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and nitrogen oxides, Phosphorous oxides. HAZARDOUS POLYMERIZATION Hazardous Polymerization: Will not occur Section 11 - Toxicological Information ROUTE OF EXPOSURE

Skin Absorption: May be harmful if absorbed through the skin.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

toxicological properties have not been thoroughly investigated.

To the best of our knowledge, the chemical, physical, and

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CONDITIONS AGGRAVATED BY EXPOSURE The toxicological properties have not been thoroughly investigated.

Section 12 - Ecological Information

Section 13 - Disposal Considerations

environmental regulations.

Proper Shipping Name: None

Section 14 - Transport Information

Section 15 - Regulatory Information

UNITED STATES REGULATORY INFORMATION

CANADA REGULATORY INFORMATION

SIGNS AND SYMPTOMS OF EXPOSURE

CHRONIC EXPOSURE - MUTAGEN

Cell Type: fibroblast

Species: Mouse Dose: 1 MMOL/L

No data available.

DOT

IATA

transport.

DISCLAIMER

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WARRANTY

SARA LISTED: No

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Ingestion: May be harmful if swallowed.

Mutation test: Unscheduled DNA synthesis

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

Non-Hazardous for Air Transport: Non-hazardous for air

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS

For R&D use only. Not for drug, household or other uses.

The above information is believed to be correct but does not

knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any

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

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APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION Contact a licensed professional waste disposal service to dispose of this material. 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

contains all the information required by the CPR. DSL: No NDSL: No Section 16 - Other Information

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