MATERIAL SAFETY DATA SHEET

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SARA 313

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Section 1 - Product and Company Information
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5'-DEOXY-5'-METHYLTHIOADENOSINE Product Name

Product Number D5011 Brand SIGMA

Sigma-Aldrich Canada, Ltd Company

Address 2149 Winston Park Drive Oakville ON L6H 6J8 CA 9058299500 Technical Phone: 9058299292 Fax: Emergency Phone: 800-424-9300

Section 2 - Composition/Information on Ingredient

Substance Name CAS # 5'-DEOXY-5'-(METHYLTHIO)ADENOSINE 2457-80-9

Formula C11H15N5O3S 5'-(Methylthio)adenosine * Synonyms 5'-S-Methylthioadenosine * Vitamin L(sub 2)

Section 3 - Hazards Identification

RTECS Number: AU7410000

EMERGENCY OVERVIEW

Caution: Avoid contact and inhalation.

HMIS RATING HEALTH: 1 FLAMMABILITY: 0

NFPA RATING

REACTIVITY: 0

HEALTH: 1 FLAMMABILITY: 0

REACTIVITY: 0 For additional information on toxicity, please refer to Section 11.

INHALATION EXPOSURE

amounts of water.

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

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

Section 4 - First Aid Measures

ORAL EXPOSURE

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

EYE EXPOSURE In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

N/A EXTINGUISHING MEDIA

Section 5 - Fire Fighting Measures

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

FLAMMABILITY

FLASH POINT

N/A

FIREFIGHTING Protective Equipment: Wear self-contained breathing apparatus

METHODS FOR CLEANING UP

pickup is complete.

AUTOIGNITION TEMP

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

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material

and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions.

Section 7 - Handling and Storage HANDLING

Section 6 - Accidental Release Measures

Suitable: Keep tightly closed.

and clothing. Avoid prolonged or repeated exposure.

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

Appearance Color: White

N/A

N/A

Solvent Content

Surface Tension

SIGMA - D5011

Mouse

LD50

> 1000 mg/kg

Species: Rat Dose: 100 UMOL/L Cell Type: liver

CHRONIC EXPOSURE - MUTAGEN

Viscosity

Evaporation Rate

Partition Coefficient N/A

N/A N/A

Decomposition Temp. N/A N/A Flash Point Explosion Limits N/A N/A Flammability Autoignition Temp N/A Refractive Index N/A Optical Rotation Degree of Rotation: 5 g/l Solvent: Pyridine -33 - -27 (+/-2)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 Nitrogen oxides. HAZARDOUS POLYMERIZATION Hazardous Polymerization: Will not occur Section 11 - Toxicological Information ROUTE OF EXPOSURE Skin Contact: May cause skin irritation. Skin Absorption: May be harmful if absorbed through the skin.

TOXICITY DATA

Eye Contact: May cause eye irritation.

Ingestion: May be harmful if swallowed.

Mutation test: DNA inhibition Section 12 - Ecological Information No data available.

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible

Safety Statements: Do not breathe dust. Avoid contact with skin

US Statements: Caution: Avoid contact and inhalation.

solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

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

transport.

s: 22-24/25

and eyes.

NDSL: No

SARA LISTED: No CANADA REGULATORY INFORMATION WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS

UNITED STATES REGULATORY INFORMATION

US CLASSIFICATION AND LABEL TEXT

Section 16 - Other Information DISCLAIMER For R&D use only. Not for drug, household or other uses.

STORAGE Store at -20°C Section 8 - Exposure Controls / PPE ENGINEERING CONTROLS Safety shower and eye bath. Mechanical exhaust required. PERSONAL PROTECTIVE EQUIPMENT Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type Pl (EN 143) dust masks. Hand: Protective gloves. Eye: Chemical safety goggles. GENERAL HYGIENE MEASURES SIGMA - D5011 Page 2 www.sigma-aldrich.com Wash thoroughly after handling. Section 9 - Physical/Chemical Properties Physical State: Solid Value Property At Temperature or Pressure Molecular Weight 297.34 AMU N/A BP/BP Range N/A 210 °C MP/MP Range Freezing Point N/A Vapor Pressure Vapor Density Saturated Vapor Conc. N/A SG/Density Bulk Density N/A Odor Threshold N/A N/A Volatile% VOC Content N/A Water Content N/A

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide,

SIGNS AND SYMPTOMS OF EXPOSURE To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Oral

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

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DOT Proper Shipping Name: None Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

Section 13 - Disposal Considerations

environmental regulations.

Section 14 - Transport Information

Section 15 - Regulatory Information

EU ADDITIONAL CLASSIFICATION

contains all the information required by the CPR. DSL: No SIGMA - D5011 www.sigma-aldrich.com

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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

guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or