MATERIAL SAFETY DATA SHEET

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SARA 313

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Section 1 - Product and Company Information
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ADENOSINE 2' -& 3'-MONOPHOSPHATE FREE & Product Name Product Number A3013 Brand SIGMA

Sigma-Aldrich Canada, Ltd Company Address 2149 Winston Park Drive Oakville ON L6H 6J8 CA

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Section 2 - Composition/Information on Ingredient

Substance Name CAS # ADENOSINE 2' - & 130-49-4

3'-MONOPHOSPHATEFREE ACID

Formula C10H14N5O7P Synonyms Adenosine 2'-monophosphate * Adenosine

2'-monophosphoric acid * Adenosine 2'-phosphate * Adenosine 2'-phosphoric acid * 2'-AMP

RTECS Number: AU7480300 Section 3 - Hazards Identification

HMIS RATING

HEALTH: 0

HEALTH: 0

REACTIVITY: 0 NFPA RATING

FLAMMABILITY: 0

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

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

INHALATION EXPOSURE

Section 4 - First Aid Measures

DERMAL EXPOSURE

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

at least 15 minutes. Remove contaminated clothing and shoes.

Call a physician.

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.

In case of skin contact, flush with copious amounts of water for

Section 5 - Fire Fighting Measures FLASH POINT

N/A AUTOIGNITION TEMP

N/A

EYE EXPOSURE

FLAMMABILITY N/A

EXTINGUISHING MEDIA

foam.

FIREFIGHTING

Section 6 - Accidental Release Measures

METHODS FOR CLEANING UP

pickup is complete.

PROCEDURE(S) OF PERSONAL PRECAUTION(S) Wear protective equipment.

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

Suitable: Carbon dioxide, dry chemical powder, or appropriate

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.

Section 7 - Handling and Storage

Section 9 - Physical/Chemical Properties

N/A

N/A 193 °c

N/A N/A

N/A

N/A

N/A

N/A

N/A N/A

N/A

N/A

N/A

N/A

Hazardous Polymerization: Will not occur

Section 11 - Toxicological Information

Molecular Weight 347.22 AMU

STORAGE Store at -20°C

Section 8 - Exposure Controls / PPE

ENGINEERING CONTROLS Mechanical exhaust required.

clothing.

PERSONAL PROTECTIVE EQUIPMENT Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective

рΗ BP/BP Range MP/MP Range

Freezing Point Vapor Pressure

SG/Density

Volatile%

Solubility

VOC Content

Water Content Solvent Content

Evaporation Rate

Autoignition Temp Refractive Index Optical Rotation Miscellaneous Data

Bulk Density Odor Threshold

Vapor Density Saturated Vapor Conc. N/A SIGMA - A3013 www.sigma-aldrich.com Page 2

Viscosity N/A Surface Tension Partition Coefficient N/A Decomposition Temp. N/A N/A Flash Point Explosion Limits N/A Flammability N/A

N/A - not available Section 10 - Stability and Reactivity STABILITY Stable: Stable. HAZARDOUS DECOMPOSITION PRODUCTS Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides.

HAZARDOUS POLYMERIZATION

ROUTE OF EXPOSURE

No data available.

SIGMA - A3013

transport.

DSL: No NDSL: No

WARRANTY

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SARA LISTED: No

DOT

skin absorption.

SIGNS AND SYMPTOMS OF EXPOSURE

Section 12 - Ecological Information

Section 13 - Disposal Considerations

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

Dissolve or mix the material with a combustible solvent and burn

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

Multiple Routes: May be harmful by inhalation, ingestion, or

Overexposure to high concentrations may cause flushing, dizziness, difficulty in breathing, and palpitations.

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

regulations. Section 14 - Transport Information

Proper Shipping Name: None

Section 15 - Regulatory Information

UNITED STATES REGULATORY INFORMATION

CANADA REGULATORY INFORMATION

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

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

contains all the information required by the CPR.

Non-Hazardous for Transport: This substance is

Section 16 - Other Information DISCLAIMER

appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or

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