Material Safety Data Sheet

Concentration

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Product name 2'-Deoxyadenosine monohydrate

1. PRODUCT AND COMPANY IDENTIFICATION

CANADA

2149 Winston Park Drive OAKVILLE ON L6H 6J8

Product Number 30920 Brand Fluka

Company Sigma-Aldrich Canada, Ltd

+19058299500 Telephone +19058299292 Fax Emergency Phone # : 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

 9-(2-Deoxy-β-D-ribofuranosyl)adenine Synonyms

C10H13N5O3 - H2O Formula 269.26 g/mol Molecular Weight EC-No. CAS-No. Index-No.

2'-deoxyadenosine 213-488-7 16373-93-6 3. HAZARDS IDENTIFICATION

Toxic by ingestion

Serious Toxic Effects **HMIS Classification**

WHMIS Classification

D1B

Health Hazard: 2 0 Flammability:

Toxic Material Causing Immediate and

Physical hazards: 0 Potential Health Effects May be harmful if inhaled. May cause respiratory tract irritation. Inhalation Skin

May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation. Eyes Toxic if swallowed. Ingestion

Wash off with soap and plenty of water. Consult a physician.

Ignition temperature no data available

4. FIRST AID MEASURES

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. Sigma-Aldrich Corporation Fluka - 30920 www.sigma-aldrich.com

5. FIRE-FIGHTING MEASURES

In case of skin contact

In case of eye contact

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

Flash point

Flammable properties no data available

Wear self contained breathing apparatus for fire fighting if necessary.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special protective equipment for fire-fighters

Suitable extinguishing media

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions Do not let product enter drains.

7. HANDLING AND STORAGE

Personal precautions

Methods for cleaning up Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Handling Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 2 - 8 °C

Store under inert gas. Air sensitive.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1

(EN 143) respirator. Use respirators and components tested and approved under appropriate government

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standards such as NIOSH (US) or CEN (EU). Hand protection

crystalline

no data available

no data available

no data available

white

Contains no substances with occupational exposure limit values.

Skin and body protection

9. PHYSICAL AND CHEMICAL PROPERTIES

Handle with gloves.

Personal protective equipment Respiratory protection

Eye protection Safety glasses

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end

Choose body protection according to the amount and concentration of the dangerous substance at the work

Form Colour Safety data

Appearance

of workday.

no data available pΗ Melting point

187 - 189 °C (369 - 372 °F) Boiling point no data available

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

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To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly

Observe all federal, state, and local environmental regulations. 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

Packing group: III

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EMS-No: F-A, S-A

Toxic by ingestion

May cause eye irritation.

Toxic if swallowed.

Elimination information (persistence and degradability)

incinerator equipped with an afterburner and scrubber.

Proper shipping name: Toxic solids, organic, n.o.s. (2'-deoxyadenosine)

Ignition temperature Lower explosion limit no data available Upper explosion limit no data available

Water solubility

Conditions to avoid Exposure to air.

Materials to avoid Strong oxidizing agents

10. STABILITY AND REACTIVITY

Flash point

Storage stability Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION Acute toxicity

no data available

Chronic exposure

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IARC:

DNA inhibition

Sister chromatid exchange

Cytogenetic analysis

investigated.

Eyes

Ingestion

no data available

no data available

Product

DOT (US)

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13. DISPOSAL CONSIDERATIONS

Additional Information RTECS: AU7358600

12. ECOLOGICAL INFORMATION

Irritation and corrosion

Sensitisation no data available

Hazardous decomposition products

LD50 Intraperitoneal - rat - > 800 mg/kg

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 - lymphocyte Cytogenetic analysis

Genotoxicity in vitro - Human - HeLa cell

Genotoxicity in vitro - Hamster - fibroblast

Genotoxicity in vivo - mouse - Intraperitoneal

Genotoxicity in vitro - Hamster - Lungs Mutation in mammalian somatic cells.

Potential Health Effects May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation. Skin

Signs and Symptoms of Exposure

Ecotoxicity effects no data available Further information on ecology

Contaminated packaging Dispose of as unused product. 14. TRANSPORT INFORMATION

UN-Number: 2811 Class: 6.1

Marine pollutant: No

Marine pollutant: No Packing group: III UN-Number: 2811 Class: 6.1

All components of this product are on the Canadian DSL list.

Serious Toxic Effects

Proper shipping name: Toxic solid, organic n.o.s. (2'-deoxyadenosine)

Toxic Material Causing Immediate and

16. OTHER INFORMATION

15. REGULATORY INFORMATION

DSL Status

D1B

Poison Inhalation Hazard: No UN-Number: 2811 Class: 6.1 Packing group: III Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (2'-deoxyadenosine)

Further information

WHMIS Classification

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