SIGMA-ALDRICH

Material Safety Data Sheet

Concentration

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Version 3.0 Revision Date 01/02/2009 Print Date 05/01/2009

Product name

1. PRODUCT AND COMPANY IDENTIFICATION

Guanosine 3',5'-cyclic monophosphate

Product Number G7504

Brand Sigma Company : Sigma-Aldrich Canada, Ltd

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+1 9058299292 Fax Emergency Phone # : 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

: cGMP Synonyms

cyclic GMP

Formula : C₁₀H₁₂N₅O₇P Molecular Weight : 345.21 g/mol

CAS-No. EC-No.

7665-99-8 231-641-6

Index-No.

Moderate skin irritant

Moderate respiratory irritant Moderate eye irritant

Guanosine cyclic 3',5'-(hydrogen phosphate)

3. HAZARDS IDENTIFICATION Emergency Overview

Target Organs Damage to the heart., Nerves., Liver

WHMIS Classification D2B

Toxic Material Causing Other Toxic Effects

Chronic Health Hazard:

HMIS Classification Health Hazard:

Flammability: Physical hazards: Potential Health Effects

May be harmful if inhaled. Causes respiratory tract irritation. Inhalation Sigma - G7504

0

0

Eves Causes eye irritation. Ingestion May be harmful if swallowed.

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

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

If swallowed

In case of skin contact

5. FIRE-FIGHTING MEASURES

Ignition temperature

Special protective equipment for fire-fighters

4. FIRST AID MEASURES

General advice

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

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

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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

Flammable properties Flash point

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

no data available

no data available

Wear self contained breathing apparatus for fire fighting if necessary.

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

Environmental precautions Do not let product enter drains.

6. ACCIDENTAL RELEASE MEASURES

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

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire

7. HANDLING AND STORAGE Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

protection.

Keep in a dry place.

Keep container tightly closed in a dry and well-ventilated place.

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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

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

Eye protection Safety glasses

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment Respiratory protection

Skin and body protection

9. PHYSICAL AND CHEMICAL PROPERTIES

Hand protection Handle with gloves.

place.

pΗ

Flash point

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

powder

no data available

no data available

no data available

Contains no substances with occupational exposure limit values.

Appearance Form Safety data

> Melting point no data available Boiling point no data available

Upper explosion limit no data available Water solubility no data available

Lower explosion limit no data available

Stable under recommended storage conditions.

Ignition temperature

10. STABILITY AND REACTIVITY

Storage stability

Materials to avoid

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IARC:

Skin

Eyes

Irritation and corrosion no data available

No component of this product present at levels greater than or equal to 0.1% is identified as

May be harmful if absorbed through skin. Causes skin irritation.

Central nervous system depression, Nausea, Headache, Vomiting, narcosis, Damage to the heart. Potential Health Effects Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Signs and Symptoms of Exposure

no data available 13. DISPOSAL CONSIDERATIONS

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal

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CAS-No.

Moderate skin irritant Moderate respiratory irritant Moderate eye irritant

7665-99-8

IMDG Not dangerous goods

15. REGULATORY INFORMATION This product contains the following components that are not on the Canadian DSL nor NDSL lists.

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product. Sigma-Aldrich Co., 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.

Guanosine cyclic 3',5'-(hydrogen phosphate)

Strong oxidizing agents Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Oxides of phosphorus 11. TOXICOLOGICAL INFORMATION

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Acute toxicity no data available

Sensitisation no data available Chronic exposure

probable, possible or confirmed human carcinogen by IARC.

Damage to the heart., Nerves., Liver,

Causes eye irritation. May be harmful if swallowed.

12. ECOLOGICAL INFORMATION Elimination information (persistence and degradability) no data available

Further information on ecology

service to dispose of this material.

Contaminated packaging Dispose of as unused product.

Not dangerous goods

Not dangerous goods

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Ecotoxicity effects no data available

Product

Target Organs

14. TRANSPORT INFORMATION DOT (US)

WHMIS Classification Toxic Material Causing Other Toxic Effects D2B

16. OTHER INFORMATION

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product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the

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