Company

Material Safety Data Sheet

Concentration

Page 1 of

Page 2 of

Page 3 of

Page 4 of

Version 3.0 Revision Date 12/28/2008 Print Date 04/16/2009

Product name 2-Deoxyribose 5-phosphate sodium salt

1. PRODUCT AND COMPANY IDENTIFICATION

: Sigma-Aldrich Canada, Ltd. 2149 Winston Park Drive

Product Number D3126 Brand Sigma

OAKVILLE ON L6H 6J8 CANADA : +1 9058299500 Telephone Fax

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

2. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C5H11O7P · xNa+

Molecular Weight : 214.11 g/mol CAS-No. EC-No.

2-Deoxyribose 5-phosphate sodium salt 102916-66-5

Index-No.

3. HAZARDS IDENTIFICATION Emergency Overview

Target Organs Liver, Kidney, Damage to the eyes., Liver injury may occur., Damage to the heart., Kidney injury may occur., Eyes, Nerves.

WHMIS Classification Very Toxic Material Causing Immediate and Highly toxic by inhalation D1A D1B Serious Toxic Effects Toxic by ingestion

> Toxic by skin absorption Moderate skin irritant Moderate respiratory irritant

D2B

Moderate eye irritant HMIS Classification Health Hazard: Chronic Health Hazard:

0

Flammability: Physical hazards:

Inhalation

Skin

0 Potential Health Effects Sigma - D3126

May be fatal if inhaled. Causes respiratory tract irritation.

Toxic if absorbed through skin. Causes skin irritation.

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

Sigma-Aldrich Corporation

www.sigma-aldrich.com

Eyes Causes eye irritation. Ingestion Toxic if swallowed. 4. FIRST AID MEASURES General advice

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician. In case of skin contact Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician. In case of eye contact

no data available

no data available

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

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

5. FIRE-FIGHTING MEASURES

Ignition temperature

Suitable extinguishing media

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

Flammable properties Flash point

If swallowed

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special protective equipment for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary.

Personal precautions Wear respiratory protection. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE Handling

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

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

protection.

Sigma - D3126

Recommended storage temperature: -20 °C

Personal protective equipment Respiratory protection

Hand protection Handle with gloves

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved

Sigma-Aldrich Corporation

www.sigma-aldrich.com

Eye protection Safety glasses Skin and body protection

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

solid

no data available

under appropriate government standards such as NIOSH (US) or CEN (EU).

Contains no substances with occupational exposure limit values.

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the 9. PHYSICAL AND CHEMICAL PROPERTIES

рΗ Melting point Boiling point

Appearance Form

Safety data

Flash point

Water solubility

Storage stability

Materials to avoid Strong oxidizing agents

Sigma - D3126

Acute toxicity no data available

no data available Chronic exposure

IARC:

10. STABILITY AND REACTIVITY

Ignition temperature no data available Lower explosion limit no data available

Sigma-Aldrich Corporation

www.sigma-aldrich.com

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

Liver, Kidney, Damage to the eyes., Liver injury may occur., Damage to the

Central nervous system depression, Gastrointestinal disturbance, narcosis, Damage to the eyes., Liver injury may

Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, Oxides of phosphorus 11. TOXICOLOGICAL INFORMATION

Upper explosion limit no data available

Stable under recommended storage conditions.

Irritation and corrosion no data available Sensitisation

probable, possible or confirmed human carcinogen by IARC.

occur., Damage to the heart., Kidney injury may occur., May cause convulsions.

Inhalation May be fatal if inhaled. Causes respiratory tract irritation. Skin Toxic if absorbed through skin. Causes skin irritation. Causes eye irritation. Toxic if swallowed. Ingestion

Potential Health Effects

Target Organs

12. ECOLOGICAL INFORMATION

no data available

Product

DOT (US)

Ecotoxicity effects no data available

Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

Not dangerous goods

Not dangerous goods

DSL Status

D2B

15. REGULATORY INFORMATION

Signs and Symptoms of Exposure

Further information on ecology no data available 13. DISPOSAL CONSIDERATIONS

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

www.sigma-aldrich.com

heart., Kidney injury may occur., Eyes, Nerves.,

Not dangerous goods Sigma-Aldrich Corporation Sigma - D3126

incinerator equipped with an afterburner and scrubber.

Elimination information (persistence and degradability)

IATA

CAS-No. 2-Deoxyribose 5-phosphate sodium salt 102916-66-5 WHMIS Classification Very Toxic Material Causing Immediate and D1A Highly toxic by inhalation Serious Toxic Effects D1B Toxic by ingestion

> Toxic by skin absorption Moderate skin irritant

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

Moderate respiratory irritant Moderate eye irritant 16. OTHER INFORMATION Further information Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not 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 knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the 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.

Sigma-Aldrich Corporation Sigma - D3126 Page 5 of www.sigma-aldrich.com