Material Safety Data Sheet

Date Printed: 07/JUN/2005 Date Updated: 21/MAR/2004 Version 1.2 According to 91/155/EEC

204-988-6 None

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Product Name
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1 - Product and Company Information

FLAVIN MONONUCLEOTIDE SODIUM Product Number F2253

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2 - Composition/Information on Ingredients Product Name CAS # EC no Annex I Index Number

130-40-5 FLAVIN MONONUCLEOTIDE SODIUM

Formula C17H20N4NaO9P · 2H2O Molecular Weight 514.4 AMU

Australia

3 - Hazards Identification

Not hazardous according to Directive 67/548/EEC. 4 - First Aid Measures

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

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

AFTER INHALATION

AFTER SKIN CONTACT In case of contact, immediately wash skin with soap and copious amounts of water.

AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by

AFTER INGESTION

SPECIAL RISKS

HANDLING

Property

BP/BP Range

MP/MP Range

Flash Point

Flammability

Bulk Density

Water Content

Conductivity

Solubility

Decomposition Temp.

Solvent Content

Surface Tension

Miscellaneous Data

10 - Stability and Reactivity

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

separating the eyelids with fingers. Call a physician.

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

EXTINGUISHING MEDIA

5 - Fire Fighting Measures

Specific Hazard(s): Emits toxic fumes under fire conditions. SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

6 - Accidental Release Measures

to prevent contact with skin and eyes.

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

Wear self-contained breathing apparatus and protective clothing

7 - Handling and Storage

pickup is complete.

METHODS FOR CLEANING UP

Directions for Safe Handling: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. STORAGE

Conditions of Storage: Keep tightly closed. Store at -20°C

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required. GENERAL HYGIENE MEASURES

Value

5.5 - 7

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A N/A

N/A

Respiratory Protection: Wear dust mask. Hand Protection: Protective gloves.

Eye Protection: Chemical safety goggles.

8 - Exposure Controls / Personal Protection

Physical State: Solid Appearance Form: Powder

9 - Physical and Chemical Properties

Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Oxidizing Properties N/A
Explosive Properties N/A
Explosion Limits Explosion Limits N/A Vapor Pressure N/A SG/Density N/A Partition Coefficient N/A SIGMA - F2253 www.sigma-aldrich.com Page 2 Viscosity N/A Vapor Density Saturated Vapor Conc. N/A Evaporation Rate

Solubility in Water: 0.1 g/ml H2O, 20°C

At Temperature or Pressure

STABILITY Stable: Stable. Conditions of Instability: May decompose on exposure to moist air Materials to Avoid: Strong oxidizing agents, Reducing agents, Bases, Calcium, Metallic salts. HAZARDOUS DECOMPOSITION PRODUCTS Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Phosphorous oxides. HAZARDOUS POLYMERIZATION Hazardous Polymerization: Will not occur

Prolonged exposure can cause: Discoloration of the skin. To the best of our knowledge, the chemical, physical, and toxicological

Skin Absorption: May be harmful if absorbed through the skin.

properties have not been thoroughly investigated.

Skin Contact: May cause skin irritation.

clear, orange-yellow

Eye Contact: May cause eye irritation. Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract. Ingestion: May be harmful if swallowed.

12 - Ecological Information

13 - Disposal Considerations

environmental regulations.

Non-hazardous for road transport.

14 - Transport Information

11 - Toxicological Information

SIGNS AND SYMPTOMS OF EXPOSURE

ROUTE OF EXPOSURE

No data available.

SUBSTANCE DISPOSAL 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 incinerator equipped with an

RID/ADR

15 - Regulatory Information CLASSIFICATION AND LABBLING ACCORDING TO BU DIRECTIVES

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 Inc.,

paper copies for internal use only.

Not hazardous according to Directive 67/548/EEC.

SIGMA - F2253 www.sigma-aldrich.com Page 3 IMDG Non-hazardous for sea transport. Non-hazardous for air transport.

Do not breathe dust. Avoid contact with skin and eyes.

shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice

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or packing slip for additional terms and conditions of sale.

For R&D use only. Not for drug, household or other uses.

afterburner and scrubber. Observe all federal, state, and local

WARRANTY 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

16 - Other Information

S-PHRASES: 22 24/25

DISCLAIMER

SIGMA - F2253