

Material Safety Data Sheet

Date Printed: 03/23/2005 Date Updated: 04/08/2004 Version 1.30

Section 1 - Product and Company Information

Product Name **Product Number** Folic acid, approx. 98%

F8758 Sigma Chemical

Brand

Company Street Address Sigma-Aldrich 3050 Spruce Street

City, State, Zip, Country

SAINT LOUIS, MO 63103 US

Technical Phone:

314 771 5765

800 325 5052

Emergency Phone:

414 273 3850 Ext. 5996

Section 2 - Composition/Information on Ingredient

Substance Name

CAS#

SARA 313 No

EC no

Annex I Index Number

FOLIC ACID

59-30-3 None

200-419-0

Formula Synonyms C19H19N7O6

Acifolic, Cytofol, Folacid, Folacin, Folbal, Folcidin, Foliamin, Folipac, Folsan, Folsaure, Folvite, Glutamic acid, N-(p-(((2-amino-4-hydroxy-6-pteridinyl)methyl)amino)benzoyl)-, L-, Glutamic acid, pteroyl-, L-, Incafolic, Kyselina listova (Czech), Liver Lactobacillus casel factor, Mittafol, NSC 3073, 4-Pteridinol, 2-amino-6-((p-((1,3-dicarboxypropyl)carbamoyl)anilino)methyl)-, Pteroylglutamic acid, Pteroyl-L-glutamic acid, Pteroylmonoglutamic acid, Pteroyl-L-monoglutamic acid, USAF CB-13, Vitamin B11, Vitamin Bc, Vitamin M

Section 3 - Hazards Identification

HMIS Rating

Health: 0

Flammability: 0

Reactivity: 1

NFPA Rating Health: 0

Flammability: 0

Reactivity: 1

For additional information on toxicity, please refer to Section 11

Section 4 - First Aid Measures

Oral Exposure

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

Inhalation Exposure

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

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

Eye Exposure

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.

Section 5 - Fire Fighting Measures

Autoignition Temp:

N/A

Extinguishing Media

Suitable

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

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 6 - Accidental Release Measures

Methods for Cleaning Up

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

Section 7 - Handling and Storage

Handling

User Exposure

Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage

Suitable

Keep tightly closed.

Special Requirements

Light sensitive.

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Mechanical exhaust required

Personal Protective Equipment

Respiratory

Wear dust mask.

Hand

Protective gloves.

Chemical safety goggles.

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General Hygiene Measures

Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance

Physical State Solid

Color Yellow

Molecular Weight:

441.4 AMU

N/A

BP/BP Range

N/A N/A MP/MP Range > 285 °C N/A

Freezing Point Vapor Pressure Vapor Density Saturated Vapor Conc. SG/Density

Bulk Density Odor Threshold Volatile% **VOC Content** Water Content 8 %

Solvent Content **Evaporation Rate** Viscosity Partition Coefficient Decomposition Temp. Flash Point °F

Flash Point °C **Explosion Limits** Flammability

Autoignition Temp Optical Rotation

Degree of Rotation: +24 - +20 (+/-2) Solubility N/A

N/A = not available

Section 10 - Stability and Reactivity

Stability Stable

Stable.

Conditions of Instability

Light sensitive Materials to Avoid

Strong oxidizing agents.

Hazardous Decomposition Products

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide, Nitrogen oxides.

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Solvent: 0.1 M NaOH10 g/l

Hazardous Polymerization Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact

May cause skin irritation.

Skin Absorption

May be harmful if absorbed through the skin.

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.

Signs and Symptoms of Exposure

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

RTECS Number: LP5425000

Toxicity Data

Species

Rat

Rat

Rat

Mouse

Mouse

Intravenous - Rat: 500 MG/KG (LD50) Oral - Mouse: 10000 mg/kg (LD50)

Intraperitoneal - Mouse: 85 MG/KG (LD50)

Remarks: Behavioral: Convulsions or effect on seizure threshold.

Behavioral: Muscle weakness.

Behavioral:Coma.

Intravenous - Mouse: 282 MG/KG (LD50)

Intravenous - Rabbit: 410 MG/KG (LD50)

Intravenous - Guinea pig: 120 MG/KG (LD50)

Chronic Exposure - Teratogen

Dose 96600 MG/KG Route of Application

Exposure Time

Oral (1-21D PREG) Result: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

150 MG/KG

Parenteral

(10D PREG)

Result: Effects on Embryo or Fetus: Cytological changes (including somatic cell genetic material).

Chronic Exposure - Mutagen

Species <u>Dose</u> 150 MG/KG Rat

<u>Route</u> Intraperitoneal

Subcutaneous

Intraperitoneal

lymphocyte

Mutation test Unscheduled DNA synthesis

Cytogenetic analysis

Unscheduled DNA synthesis

Unscheduled DNA synthesis

Section 12 - Ecological Information

10 UG/L

150 MG/KG

250 MG/KG

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

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

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Section 14 - Transport Information

DOT

Proper Shipping Name: None Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

United States Regulatory Information SARA Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information

required by the CPR.

DSL: Yes NDSL: No

Section 16 - Other Information

Disclaimer

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

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 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., 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. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

