



MATERIAL SAFETY DATA SHEET

1 - Product and Company Information

Product Name FOLIC ACID

Product Number F7876

Contact Information:

Company: Aurora Industry Co.,Ltd.

Address:Room 7033, No.9-1, Haifu Road, Dalian Free Trade Zone, China

Tel:0411-82288674

2 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Not hazardous according to Directive 67/548/EEC.

3 - Composition/Information on Ingredients

Product Name CAS # EC no Annex I

Index Number

FOLIC ACID 59-30-3 200-419-0 None

Formula C₁₉H₁₉N₇O₆

Molecular Weight 441.4 AMU

Synonyms Acifolic * Cytofol * Folacid * Folacin * Folbal

* Folcidin * Foliamin * Folipac * Folsan *

Folsaure * Folvite * Glutamic acid,

N-(p-(((2-amino-4-hydroxy-6-pteridiny)methyl)ami

no)benzoyl)-, L- * Glutamic acid, pteroyl-, L- *

Incafolic * Kyselina listova (Czech) * Liver

Lactobacillus casei factor * Mittafol * NSC 3073

* 4-Pteridinol,

2-amino-6-((p-((1,3-dicarboxypropyl)carbamoyl)ani

lino)methyl)- * Pteroylglutamic acid *

Pteroyl-L-glutamic acid * Pteroylmonoglutamic

acid * Pteroyl-L-monoglutamic acid * USAF CB-13

* Vitamin B11 * Vitamin Bc * Vitamin M

4 - First Aid Measures

AFTER INHALATION

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

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 separating the eyelids with fingers. Call a physician.

AFTER INGESTION

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

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

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

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

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 complete.

7 - Handling and Storage

HANDLING

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.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use



type N95

Hand Protection: Protective gloves.

Eye Protection: Chemical safety goggles.

9 - Physical and Chemical Properties

Appearance Physical State: Solid

Color: Yellow

Property Value At Temperature or Pressure

pH N/A

BP/BP Range N/A

MP/MP Range > 285 °C

Flash Point N/A

Flammability N/A

Autoignition Temp N/A

Oxidizing Properties N/A

Explosive Properties N/A

Explosion Limits N/A

Vapor Pressure N/A

SG/Density N/A

Partition Coefficient N/A

Viscosity N/A

Vapor Density N/A

Saturated Vapor Conc. N/A

Evaporation Rate N/A

Bulk Density N/A

Decomposition Temp. N/A

Solvent Content N/A

Water Content 8 %

Surface Tension N/A

Conductivity N/A

Miscellaneous Data N/A

Solubility N/A

10 - Stability and Reactivity

STABILITY

Stable: Stable.

Conditions of Instability: Light sensitive.

Materials to Avoid: Strong oxidizing agents.

Hazardous Polymerization: Will not occur



11 - Toxicological Information

RTECS NUMBER: LP5425000

ACUTE TOXICITY

LD50

Intravenous

Rat

500 MG/KG

LD50

Oral

Mouse

10000 mg/kg

LD50

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Intraperitoneal

Mouse

85 MG/KG

Remarks: Behavioral:Convulsions or effect on seizure threshold.

Behavioral:Muscle weakness. Behavioral:Coma.

LD50

Intravenous

Mouse

282 MG/KG

LD50

Intravenous

Rabbit

410 MG/KG

LD50

Intravenous

Guinea pig

120 MG/KG

SIGNS AND SYMPTOMS OF EXPOSURE

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

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: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: May be harmful if swallowed.



CHRONIC EXPOSURE - MUTAGEN

Rat

150 MG/KG

Intraperitoneal

Unscheduled DNA synthesis

Rat

10 UG/L

Cell Type: lymphocyte

Cytogenetic analysis

Mouse

150 MG/KG

Subcutaneous

Unscheduled DNA synthesis

Mouse

250 MG/KG

Intraperitoneal

Unscheduled DNA synthesis

CHRONIC EXPOSURE - TERATOGEN

Species: Rat

Dose: 96600 MG/KG

Route of Application: Oral

Exposure Time: (1-21D PREG)

Result: Effects on Embryo or Fetus: Fetotoxicity (except death,e.g., stunted fetus).

Species: Rat

Dose: 150 MG/KG

Route of Application: Parenteral

Exposure Time: (10D PREG)

Result: Effects on Embryo or Fetus: Cytological changes

12 - Ecological Information

No data available.

13 - Disposal Considerations

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

14 - Transport Information

RID/ADR



Non-hazardous for road transport.

IMDG

Non-hazardous for sea transport.

IATA

Non-hazardous for air transport.

15 - Regulatory Information

Not hazardous according to Directive 67/548/EEC.

COUNTRY SPECIFIC INFORMATION

Germany

WGK: 1

ID-Number: 1504

KBwS-Decision

16 - Other Information

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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.