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## MATERIAL SAFETY DATA SHEET

### **FOLIC ACID 98%**

(For Biochemistry)
MSDS CAS: 59-30-3

## Section 1: Chemical Product and Company Identification

**Section 1: Chemical Product Product Name: FOLIC ACID** 

CAS#: 59-30-3

Synonym: N-[4-[[2-Amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-L-glutamic acid

**Chemical Name: Folic Acid** 

Chemical Formula: C19H19FN7O6

**Brand: OXFORD** 

### **Details Of The Supplier Of The Safety Data Sheet:**

**Company identification: OXFORD LAB FINE CHEM LLP** 

Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,

Navghar, Vasai (East). Palghar - 401 210.

Mumbai, Maharashtra, INDIA.

Tel: 91-250-2390989

Tel/Fax: 91-250-2390032

## **Section 2: Composition and Information on Ingredients**

### **Composition:**

Name	CAS#	% by Weight
Folic Acid	59-30-3	98%

Toxicological Data on Ingredients: Folic acid: ORAL (LD50): Acute: 10000 mg/kg [Mouse].

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## **Section 3: Hazards Identification**

#### **Potential Acute Health Effects:**

Hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation (lung irritant, lung sensitizer).

#### **Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.

## **Section 4: First Aid Measures**

#### **Eye Contact:**

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

#### **Skin Contact:**

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

### **Serious Skin** Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

#### **Inhalation:**

Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

**Serious Inhalation:** Not available.

#### **Ingestion:**

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

**Serious Ingestion:** Not available.

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## **Section 5: Fire and Explosion Data**

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

**Products of Combustion:** These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...).

#### Fire Hazards in Presence of Various Substances:

Highly flammable in presence of open flames and sparks, of heat.

#### **Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

#### Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

## **Section 6: Accidental Release Measures**

### **Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

#### Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Neutralize the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

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## **Section 7: Handling and Storage**

#### **Precautions:**

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

### **Storage:**

Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

## **Section 8: Exposure Controls/Personal Protection**

### **Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

#### **Personal Protection:**

Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

#### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not available.

## **Section 9: Physical and Chemical Properties**

Physical state and appearance: Solid.

Odor : odourless.

Taste : Not available.
Molecular Weight : 441.4 g/mole

Color : Yellowish crystalline..

pH (1% soln/water) : 4 [Acidic.]

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## Section 9: Physical and Chemical Properties (Continued)

**Boiling Point** : Not available.

Melting Point  $:> 285 \, ^{\circ}\text{C}$ 

Critical Temperature

Specific Gravity

Vapor Pressure

Vapor Density

Volatility

Not available.

Not available.

Not available.

Not available.

Odor Threshold : Not available.
Water/Oil Dist. Coeff. : Not available.
Ionicity (in Water) : Not available.
Dispersion Properties : Not available.

**Solubility** : Water: Slightly soluble in water.

### **Section 10: Stability and Reactivity Data**

**Stability:** The product is stable.

**Instability Temperature:** Not available.

Conditions of Instability: Not available.

<u>Incompatibility with various substances:</u> Not available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** No.

## **Section 11: Toxicological Information**

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

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## **Section 11: Toxicological Information (Continued)**

**Toxicity to Animals:** Acute oral toxicity (LD50): 10000 mg/kg [Mouse].

**Chronic Effects on Humans:** The substance is toxic to lungs, mucous membranes.

#### **Other Toxic Effects on Humans:**

Hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation (lung irritant, lung sensitizer).

**Special Remarks on Toxicity to Animals:** Not available.

#### **Special Remarks on Chronic Effects on Humans:**

Human: passes the placental barrier, detected in maternal milk.

**Special Remarks on other Toxic Effects on Humans:** Not available.

## **Section 12: Ecological Information**

**Ecotoxicity:** Not available.

**BOD5** and **COD**: Not available.

#### **Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

# **Section 13: Disposal Considerations**

### Waste Disposal:

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# **Section 14: Transport Information**

**Land transport (ADR-RID)** 

**General information:** Not regulated.

Sea transport (IMDG) [English only]

General information: Not regulated.

Air transport (ICAO-IATA) [English only]

General information: Not regulated.

# **Section 15: Other Regulatory Information**

Federal and State Regulations: TSCA 8(b) inventory: Folic acid

**Other Regulations:** 

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**Other Classifications:** 

WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC): R36/37/38- Irritating to eyes, respiratory system and skin. R42- May cause sensitization by inhalation.

**HMIS (U.S.A.):** 

Health Hazard: 2
Fire Hazard: 2
Reactivity: 0

**Personal Protection: E** 

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# **Section 15: Other Regulatory Information (Continued)**

### **National Fire Protection Association (U.S.A.):**

Health: 2

Flammability: 1 Reactivity: 0 **Specific hazard:** 

### **Protective Equipment:**

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

# **Section 16 - Additional Information**

References: Not available.

Other Special Considerations: Not available.

## Disclaimer:

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