## SIGMA-ALDRICH

Company

Emergency Phone #

Fax

Formula

CAS-No.

Orotic acid

Molecular Weight

# Material Safety Data Sheet

Concentration

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Version 3.0 Revision Date 01/01/2009 Print Date 03/04/2009

### Product name Orotic acid

1. PRODUCT AND COMPANY IDENTIFICATION

Product Number 02750 Brand Sigma

2149 Winston Park Drive OAKVILLE ON L6H 6J8 CANADA Telephone

: +1 9058299500 : +1 9058299292

: Sigma-Aldrich Canada, Ltd.

: 800-424-9300 2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms 6-Carboxy-2,4-dihydroxypyrimidine 2,6-Dihydroxypyrimidine-4-carboxylic acid

Uracil-6-carboxylic acid 6-Carboxyuracil

: C<sub>5</sub>H<sub>4</sub>N<sub>2</sub>O<sub>4</sub>

: 156.1 g/mol

EC-No. Index-No.

200-619-8 65-86-1 3. HAZARDS IDENTIFICATION

HMIS Classification

2

0

0

WHMIS Classification Toxic Material Causing Other Toxic Effects Moderate skin irritant Moderate respiratory irritant Moderate eye irritant

### Health Hazard:

Physical hazards:

Potential Health Effects

Flammability:

Inhalation

Skin

Eyes

Ingestion Harmful if swallowed. Sigma-Aldrich Corporation Sigma - 02750 www.sigma-aldrich.com

Causes eye irritation.

Wash off with soap and plenty of water. Consult a physician.

May be harmful if inhaled. Causes respiratory tract irritation.

May be harmful if absorbed through skin. Causes skin irritation.

### In case of eye contact

In case of skin contact

4. FIRST AID MEASURES

General advice

If inhaled

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

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

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

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

5. FIRE-FIGHTING MEASURES Flammable properties

Flash point no data available Ignition temperature no data available Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Special protective equipment for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary.

Personal precautions

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions Do not let product enter drains.

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

7. HANDLING AND STORAGE

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

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

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

Handling

Sigma - 02750

standards such as NIOSH (US) or CEN (EU).

Contains no substances with occupational exposure limit values.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment Respiratory protection

no data available

no data available

no data available no data available

no data available

Hand protection

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

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1

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(EN 143) respirator. Use respirators and components tested and approved under appropriate government

### Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end 9. PHYSICAL AND CHEMICAL PROPERTIES

Flash point

Ignition temperature

Lower explosion limit

Upper explosion limit

Water solubility

10. STABILITY AND REACTIVITY

place.

Appearance

Handle with gloves.

Hygiene measures

Skin and body protection

Eye protection Safety glasses

Form solid Safety data рΗ

no data available Melting point >= 300 °C (>= 572 °F) Boiling point no data available

Storage stability

Acute toxicity

no data available

Irritation and corrosion no data available Sensitisation

LD50 Oral - mouse - 2,000 mg/kg

Chronic exposure IARC:

probable, possible or confirmed human carcinogen by IARC.

Potential Health Effects Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation.

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

Product Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

13. DISPOSAL CONSIDERATIONS

Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Sigma - 02750

Not dangerous goods 15. REGULATORY INFORMATION

DSL Status All components of this product are on the Canadian DSL list.

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.

Stable under recommended storage conditions. Materials to avoid Strong oxidizing agents Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx) 11. TOXICOLOGICAL INFORMATION

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No component of this product present at levels greater than or equal to 0.1% is identified as Sigma - 02750

Genotoxicity in vitro - rat - Liver

Genotoxicity in vivo - rat - Oral

Signs and Symptoms of Exposure

DNA inhibition

investigated.

Ingestion

no data available

Ecotoxicity effects

Additional Information RTECS: RM3180000

12. ECOLOGICAL INFORMATION

DNA inhibition Genotoxicity in vivo - rat - Oral Morphological transformation.

no data available Further information on ecology no data available

Not dangerous goods IMDG Not dangerous goods

Harmful if swallowed.

Elimination information (persistence and degradability)

WHMIS Classification Toxic Material Causing Other Toxic Effects D2B Moderate skin irritant Moderate respiratory irritant Moderate eye irritant 16. OTHER INFORMATION

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