## SIGMA-ALDRICH

Telephone

Emergency Phone #

Fax

## Material Safety Data Sheet Version 3.0

Revision Date 08/21/2008 Print Date 10/05/2009

## Product name 1,7-Dimethylxanthine

1. PRODUCT AND COMPANY IDENTIFICATION

Product Number : 41761 Brand : Fluka

Company : Sigma-Aldrich Canada, Ltd. 2149 Winston Park Drive OAKVILLE ON L6H 6J8

CANADA : +1 9058299500

: +1 9058299292 : 800-424-9300

Paraxanthine

2. COMPOSITION/INFORMATION ON INGREDIENTS : 1,7-Dimethyl-1H-purine-2,6-dione Synonyms 2,6-Dihydroxy-1,7-dimethylpurine

Not WHMIS controlled.

0

0

3,7-dihydro-1,7-dimethyl-1H-purine-2,6-dione Formula. : C7H8N4O2

Molecular Weight : 180.16 g/mol

CAS-No. EC-No. Index-No.

3,7-dihydro-1,7-dimethyl-1H-purine-2,6-dione

210-271-9

3. HAZARDS IDENTIFICATION

## HMIS Classification

Flammability:

WHMIS Classification

Health Hazard:

1

Sigma-Aldrich Corporation

www.sigma-aldrich.com

Physical hazards: Potential Health Effects

May be harmful if inhaled. May cause respiratory tract irritation. Inhalation May be harmful if absorbed through skin. May cause skin irritation. Skin Eyes May cause eye irritation.

Ingestion

Harmful if swallowed.

4. FIRST AID MEASURES

Fluka - 41761

Consult a physician. Show this safety data sheet to the doctor in attendance. If inhaled If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

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

Ignition temperature no data available

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

5. FIRE-FIGHTING MEASURES Flammable properties

no data available

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special protective equipment for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary.

Suitable extinguishing media

Flash point

In case of skin contact

6. ACCIDENTAL RELEASE MEASURES Personal precautions

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

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

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

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

Environmental precautions Do not let product enter drains.

Avoid formation of dust and aerosols.

Personal protective equipment

Hand protection

Eye protection

Hygiene measures

9. PHYSICAL AND CHEMICAL PROPERTIES

Fluka - 41761

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

7. HANDLING AND STORAGE

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

Handling

protection.

Respiratory protection

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

Contains no substances with occupational exposure limit values.

Safety glasses Skin and body protection

crystalline

no data available

0.6 g/l Ethanol

Form Safety data

Flash point

Solubility

Storage stability

Materials to avoid Strong oxidizing agents

Acute toxicity

Sensitisation no data available

Appearance

рΗ

of workday.

294 - 296 °C (561 - 565 °F) Melting point Boiling point no data available

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

Sigma-Aldrich Corporation

www.sigma-aldrich.com

probable, possible or confirmed human carcinogen by IARC.

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

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

Water solubility 1 g/l log Pow: -0.687 Partition coefficient: n-octanol/water

10. STABILITY AND REACTIVITY

Ignition temperature

Lower explosion limit

Upper explosion limit

no data available Irritation and corrosion no data available

Stable under recommended storage conditions.

Hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

Chronic exposure Fluka - 41761

No component of this product present at levels greater than or equal to 0.1% is identified as IARC:

Skin

Eyes

Ingestion

no data available

no data available

Product

DOT (US)

IATA

Fluka - 41761

Fluka - 41761

Ecotoxicity effects no data available

Further information on ecology

13. DISPOSAL CONSIDERATIONS

14. TRANSPORT INFORMATION

Not dangerous goods

Not dangerous goods

Not dangerous goods

16. OTHER INFORMATION

DSL Status

15. REGULATORY INFORMATION

12. ECOLOGICAL INFORMATION

investigated. Potential Health Effects Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Signs and Symptoms of Exposure

Observe all federal, state, and local environmental regulations. Contaminated packaging Dispose of as unused product.

May cause eye irritation.

Harmful if swallowed.

Elimination information (persistence and degradability)

3,7-dihydro-1,7-dimethyl-1H-purine-2,6-dione WHMIS Classification Not WHMIS controlled.

Further information Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

CAS-No.

611-59-6

Page 4 of

Not WHMIS controlled.

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.

Sigma-Aldrich Corporation

www.sigma-aldrich.com

Handle with gloves. For prolonged or repeated contact use protective gloves. Sigma-Aldrich Corporation Page 2 of www.sigma-aldrich.com

Page 3 of

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end

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

Concentration

Page 1 of

Not WHMIS controlled.

Sigma-Aldrich Corporation Page 5 of www.sigma-aldrich.com