SIGMA-ALDRICH

Material Safety Data Sheet

Concentration

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Version 3.0 Revision Date 08/22/2008 Print Date 04/18/2010

Product name

1. PRODUCT AND COMPANY IDENTIFICATION

N1-Acetylspermine trihydrochloride

Product Number : 01467

Brand : Fluka Company : Sigma-Aldrich Canada, Ltd.

> OAKVILLE ON L6H 6J8 CANADA

2149 Winston Park Drive

: +19058299500 : +19058299292 : 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C12H28N4O-3HCI Molecular Weight : 353.76 g/mol

N1-Acetylspermine trihydrochloride 77928-70-2

3. HAZARDS IDENTIFICATION

Index-No.

Moderate eye irritant

WHMIS Classification

Telephone

CAS-No.

Emergency Phone #

Fax

D2B Toxic Material Causing Other Toxic Effects Moderate respiratory irritant

> 2 0

> 0

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

no data available

Wear self contained breathing apparatus for fire fighting if necessary.

EC-No.

Moderate skin irritant

HMIS Classification Health Hazard: Flammability:

Physical hazards:

Potential Health Effects

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

May be harmful if swallowed. Ingestion 4. FIRST AID MEASURES

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. Sigma-Aldrich Corporation Fluka - 01467 www.sigma-aldrich.com

General advice

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.

Flammable properties Flash point

Suitable extinguishing media

In case of skin contact

5. FIRE-FIGHTING MEASURES

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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special protective equipment for fire-fighters

Personal precautions

Methods for cleaning up

7. HANDLING AND STORAGE

6. ACCIDENTAL RELEASE MEASURES

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ignition temperature no data available

Environmental precautions Do not let product enter drains.

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

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

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire

protection.

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

Contains no substances with occupational exposure limit values.

Personal protective equipment Respiratory protection

Skin and body protection

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

Hand protection

Safety glasses

place.

Appearance Form

Colour

Safety data

Hygiene measures

9. PHYSICAL AND CHEMICAL PROPERTIES

Handle with gloves. Eye protection

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crystalline

no data available

no data available

no data available

white

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

pН no data available Melting point no data available no data available Boiling point

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

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May be harmful if inhaled. Causes respiratory tract irritation.

Causes eye irritation.

Elimination information (persistence and degradability)

May be harmful if swallowed.

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

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

Flash point Ignition temperature

Water solubility

Lower explosion limit

Upper explosion limit no data available

50 g/l

10. STABILITY AND REACTIVITY Storage stability Stable under recommended storage conditions.

chloride gas

Acute toxicity no data available

no data available

Inhalation Skin

Ingestion

no data available

no data available

Product

DOT (US)

IMDG

12. ECOLOGICAL INFORMATION

Further information on ecology

service to dispose of this material.

13. DISPOSAL CONSIDERATIONS

Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

Not dangerous goods

Eyes

Potential Health Effects

Materials to avoid Strong oxidizing agents

Irritation and corrosion no data available Sensitisation

Hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

Chronic exposure IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Fluka - 01467

no data available Ecotoxicity effects

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal

Not dangerous goods IATA Not dangerous goods

WHMIS Classification

D2B

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16. OTHER INFORMATION Further information

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

15. REGULATORY INFORMATION DSL Status This product contains the following components that are not on the Canadian DSL nor NDSL lists. CAS-No. N1-Acetylspermine trihydrochloride 77928-70-2

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Toxic Material Causing Other Toxic Effects

Moderate skin irritant Moderate respiratory irritant Moderate eye irritant

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the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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