Material Safety Data Sheet

Version 3.0 Revision Date 05/19/2009 Print Date 10/16/2009

Product name v-Caprolactone

1. PRODUCT AND COMPANY IDENTIFICATION

Product Number 21505 Brand : Fluka

: Sigma-Aldrich Canada, Ltd. Company 2149 Winston Park Drive

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

: GAMMA-CAPROLACTONE Synonyms Hexan-4-olide

Formula : C6H10O2 Molecular Weight 114.14 g/mol

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

695-06-7 211-778-8 3. HAZARDS IDENTIFICATION

Moderate eye irritant

Toxic Material Causing Other Toxic Effects D2B

WHMIS Classification

Hexan-4-olide

HMIS Classification Health Hazard:

Potential Health Effects

2

Flammability: 1 0 Physical hazards:

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

Causes eye irritation. Eyes Ingestion May be harmful if swallowed.

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 - 21505 www.sigma-aldrich.com

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician. In case of skin contact Wash off with soap and plenty of water. Consult a physician.

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

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

5. FIRE-FIGHTING MEASURES

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

Flammable properties Flash point 98 °C (208 °F) - closed cup no data available Ignition temperature

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

disposal.

Suitable extinguishing media

6. ACCIDENTAL RELEASE MEASURES

Do not let product enter drains.

Personal precautions Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Environmental precautions

Normal measures for preventive fire protection.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methods for cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for

Handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Personal protective equipment

Hand protection Handle with gloves. Eye protection

7. HANDLING AND STORAGE

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

Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If

Contains no substances with occupational exposure limit values.

the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Safety glasses Sigma-Aldrich Corporation Fluka - 21505

no data available 219 °C (426 °F)

no data available

log Pow: 0.341

1.023 g/mL at 25 °C (77 °F)

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Flash point 98 °C (208 °F) - closed cup no data available Ignition temperature Lower explosion limit no data available

Upper explosion limit no data available

Melting point

Boiling point

Density

Water solubility

n-octanol/water

Storage stability

Acute toxicity

Inhalation

Ingestion

Additional Information RTECS: LU4220000

12. ECOLOGICAL INFORMATION

Ecotoxicity effects no data available

Product

DOT (US)

DSL Status

Further information on ecology

service to dispose of this material.

Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

15. REGULATORY INFORMATION

WHMIS Classification

16. OTHER INFORMATION

Fluka - 21505

Further information

Not dangerous goods

Skin

Eyes

Partition coefficient:

10. STABILITY AND REACTIVITY

Stable under recommended storage conditions. Materials to avoid Strong oxidizing agents, Strong bases, Strong acids

Hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - > 5,000 mg/kg LD50 Dermal - rabbit - > 5,000 mg/kg Irritation and corrosion

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

Causes eye irritation.

Elimination information (persistence and degradability)

May be harmful if swallowed.

no data available 13. DISPOSAL CONSIDERATIONS

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

Moderate eye irritant

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Not dangerous goods IATA Not dangerous goods

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

Toxic Material Causing Other Toxic Effects D2B Sigma-Aldrich Corporation Fluka - 21505 www.sigma-aldrich.com

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.

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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

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Skin - rabbit - Mild skin irritation - 24 h Irritating to eyes. Sensitisation no data available Sigma-Aldrich Corporation Fluka - 21505 Page 3 of www.sigma-aldrich.com 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. Signs and Symptoms of Exposure

May be harmful if inhaled. Causes respiratory tract irritation.

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

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. 9. PHYSICAL AND CHEMICAL PROPERTIES Appearance Form clear, liquid Colour colourless Safety data no data available pΗ

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

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Concentration

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