MATERIAL SAFETY DATA SHEET

Date Printed: 02/17/2009 Date Updated: 01/31/2006 Version 1.3

SARA 313

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Section 1 - Product and Company Information
                             N-EPSILON-ACETYL-L-LYSINE
Product Name
                             A4021
                             SIGMA
                             Sigma-Aldrich Canada, Ltd
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Product Number
Brand
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Company

Address 2149 Winston Park Drive Oakville ON L6H 6J8 CA

9058299500 Technical Phone: 9058299292 Fax:

800-424-9300 Emergency Phone: Section 2 - Composition/Information on Ingredient

Substance Name N-EPSILON-ACETYL-L-LYSINE 692-04-6

C8H16N2O3 Formula

Section 3 - Hazards Identification

HMIS RATING HEALTH: 0

REACTIVITY: 0 NFPA RATING HEALTH: 0 FLAMMABILITY: 0 REACTIVITY: 0

FLAMMABILITY: 0

ORAL EXPOSURE If swallowed, wash out mouth with water provided person is

For additional information on toxicity, please refer to Section 11.

conscious. Call a physician. INHALATION EXPOSURE

Section 4 - First Aid Measures

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious amounts of water.

EYE EXPOSURE In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

N/A

Section 5 - Fire Fighting Measures

FLAMMABILITY

STORAGE

FLASH POINT N/A

AUTOIGNITION TEMP

FIREFIGHTING Protective Equipment: Wear self-contained breathing apparatus

appropriate foam.

heavy rubber gloves.

METHODS FOR CLEANING UP

Store at -20°C

ENGINEERING CONTROLS

GENERAL HYGIENE MEASURES

reuse.

BP/BP Range

Vapor Pressure Vapor Density

Bulk Density

STABILITY

Vapor Density
Saturated Vapor Conc. N/A
sc/Density N/A

MP/MP Range Freezing Point

рH

EXTINGUISHING MEDIA

Section 6 - Accidental Release Measures PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and

Suitable: Water spray. Carbon dioxide, dry chemical powder, or

and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions.

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage HANDLING User Exposure: Avoid inhalation. Avoid contact with eyes, skin,

Suitable: Keep tightly closed. Store in a cool dry place.

and clothing. Avoid prolonged or repeated exposure.

Section 8 - Exposure Controls / PPE

PERSONAL PROTECTIVE EQUIPMENT Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection is

Safety shower and eye bath. Mechanical exhaust required.

14387) respirator cartridges. Hand: Compatible chemical-resistant gloves. Eye: Chemical safety goggles.

desired, use multi-purpose combination (US) or type ABEK (EN

Section 9 - Physical/Chemical Properties Molecular Weight 188.23 AMU SIGMA - A4021 Page 2 www.sigma-aldrich.com

Wash thoroughly after handling. Wash contaminated clothing before

Odor Threshold Volatile% N/A VOC Content N/A Water Content N/A Solvent Content N/A N/A Evaporation Rate Viscosity N/A Surface Tension N/A Partition Coefficient Decomposition Temp. Flash Point N/A Explosion Limits N/A Flammability N/A Autoignition Temp N/A Refractive Index N/A Optical Rotation Miscellaneous Data N/A Solubility N/A N/A - not available Section 10 - Stability and Reactivity

Materials to Avoid: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide,

Multiple Routes: May be harmful by inhalation, ingestion, or

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

N/A

N/A 250 °C

N/A

N/A

N/A

N/A

Section 12 - Ecological Information No data available.

Section 13 - Disposal Considerations

Section 14 - Transport Information

Section 15 - Regulatory Information

UNITED STATES REGULATORY INFORMATION

CANADA REGULATORY INFORMATION

SIGNS AND SYMPTOMS OF EXPOSURE

HAZARDOUS DECOMPOSITION PRODUCTS

Section 11 - Toxicological Information

Skin Contact: May cause skin irritation. Eye Contact: May cause eye irritation.

Nitrogen oxides.

skin absorption.

ROUTE OF EXPOSURE

regulations.

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transport.

DISCLAIMER

WARRANTY

SARA LISTED: No

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental

DOT Proper Shipping Name: None Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

Non-Hazardous for Air Transport: Non-hazardous for air

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DSL: No NDSL: No Section 16 - Other Information

For R&D use only. Not for drug, household or other uses.

contains all the information required by the CPR.

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS

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

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