SIGMA-ALDRICH MATERIAL SAFETY DATA SHEET Date Printed: 01/06/2009 Date Updated: 02/06/2007 Version 1.5 Section 1 - Product and Company Information Product Name N-ACETYL-L-ASPARTIC ACID, 98% 441546 Product Number Brand ALDRICH Sigma-Aldrich Canada, Ltd 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 SARA 313 N-ACETYL-L-ASPARTIC ACID 997-55-7 CAS # SARA 313 Ingredient Name Percent THE FOLLOWING SUBSTANCES ARE PRESENT None AS RESIDUAL COMPONENTS OF PRODUCTION. <- 3 ETHYL ACETATE 141-78-6 No Formula C6H9NO5 Acetylaspartic acid \* Acetyl-L-aspartic acid \* Synonyms L-N-Acetylaspartic acid \* N-Acetylaspartic acid \* Aspartic acid, N-acetyl-, L- (8CI) RTECS Number: CI9098600 Section 3 - Hazards Identification EMERGENCY OVERVIEW Possible sensitizer. HMIS RATING HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0 NFPA RATING HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0 For additional information on toxicity, please refer to Section 11. Section 4 - First Aid Measures ORAL EXPOSURE If swallowed, wash out mouth with water provided person is conscious. Call a physician. INHALATION EXPOSURE If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. 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. Section 5 - Fire Fighting Measures FLASH POINT N/A AUTOIGNITION TEMP N/A FLAMMABILITY N/A EXTINGUISHING MEDIA Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. FIREFIGHTING Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions. Section 6 - Accidental Release Measures PROCEDURE(S) OF PERSONAL PRECAUTION(S) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. METHODS FOR CLEANING UP 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, and clothing. Avoid prolonged or repeated exposure. Suitable: Keep tightly closed. Store in a cool dry place. Section 8 - Exposure Controls / PPE ENGINEERING CONTROLS Safety shower and eye bath. Mechanical exhaust required. 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 from nuisance levels of dusts are desired, use type N95 (US) or type Pl (EN 143) dust masks. ALDRICH - 441546 www.sigma-aldrich.com Page 2 Hand: Compatible chemical-resistant gloves. Eye: Chemical safety goggles. GENERAL HYGIENE MEASURES Wash thoroughly after handling. Wash contaminated clothing before reuse. Section 9 - Physical/Chemical Properties Appearance Color: White Form: Powder Property Value At Temperature or Pressure Molecular Weight 175.14 AMU рН N/A N/A BP/BP Range 143 °C MP/MP Range Freezing Point N/A Vapor Pressure Vapor Density
Saturated Vapor Conc. N/A
N/A N/A Bulk Density N/A Odor Threshold N/A Volatile% N/A N/A VOC Content N/A Water Content N/A N/A Solvent Content Evaporation Rate N/A Viscosity N/A Surface Tension Partition Coefficient Log Kow: - 1.093
Decomposition Temp. N/A Decomposition Temp. N/A Explosion Limits N/A Flammability N/A Autoignition Temp N/A Refractive Index N/A Optical Rotation Degree of Rotation: 20 g/l Solvent: 6 M HCl +14 - +12 (+/-1) N/A Miscellaneous Data Solubility N/A N/A - not available Section 10 - Stability and Reactivity STABILITY Stable: Stable. Materials to Avoid: Strong oxidizing agents. HAZARDOUS DECOMPOSITION PRODUCTS Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides. HAZARDOUS POLYMERIZATION Hazardous Polymerization: Will not occur Section 11 - Toxicological Information ROUTE OF EXPOSURE ALDRICH - 441546 Page 3 www.sigma-aldrich.com Skin Contact: May cause skin irritation. Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation. Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract. Ingestion: May be harmful if swallowed. SENSITIZATION Sensitization: Possible sensitizer. Skin: The preceding data, or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling. Prolonged or repeated exposure may cause

allergic reactions in certain sensitive individuals.

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

To the best of our knowledge, the chemical, physical, and

toxicological properties have not been thoroughly investigated.

Contact a licensed professional waste disposal service to dispose of this material. 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

SIGNS AND SYMPTOMS OF EXPOSURE

Section 12 - Ecological Information

Section 13 - Disposal Considerations

environmental regulations.

TOXICITY DATA

2660 MG/KG

No data available.

and eyes.

SARA LISTED: No

ALDRICH - 441546

DSL: No NDSL: No

WARRANTY

Mouse

LD50

Intraperitoneal

Section 14 - Transport Information Proper Shipping Name: None Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport. IATA Non-Hazardous for Air Transport: Non-hazardous for air transport. Section 15 - Regulatory Information EU ADDITIONAL CLASSIFICATION s: 22-24/25

Safety Statements: Do not breathe dust. Avoid contact with skin

accordance with the hazard criteria of the CPR, and the MSDS

contains all the information required by the CPR.

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Page 4

Page 5

CANADA REGULATORY INFORMATION WHMIS Classification: This product has been classified in

Section 16 - Other Information

US CLASSIFICATION AND LABEL TEXT

US Statements: Possible sensitizer.

UNITED STATES REGULATORY INFORMATION

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

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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

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