## MATERIAL SAFETY DATA SHEET

Date Printed: 12/19/2008 Date Updated: 01/28/2006 Version 1.2

SARA 313

No

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Section 1 - Product and Company Information
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Product Name SUCCINIC SEMIALDEHYDE MONOMER S1505 Product Number

Brand SIGMA

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 CAS # SUCCINIC SEMIALDEHYDE SOLUTION None

Ingredient Name CAS # Percent SARA 313 WATER 7732-18-5 >- 80 No <- 90 >- 10 SUCCINIC SEMIALDEHYDE 692-29-5 No <- 20 Section 3 - Hazards Identification

HEALTH: 0 FLAMMABILITY: 0

REACTIVITY: 0

HMIS RATING

NFPA RATING HEALTH: 0

FLAMMABILITY: 0

REACTIVITY: 0

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

ORAL EXPOSURE If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE

amounts of water.

Section 4 - First Aid Measures

If inhaled, remove to fresh air. If breathing becomes difficult,

call a physician. DERMAL EXPOSURE In case of contact, immediately wash skin with soap and copious

EYE EXPOSURE

Section 5 - Fire Fighting Measures FLASH POINT N/A

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

FLAMMABILITY

N/A

N/A

appropriate foam. FIREFIGHTING

EXTINGUISHING MEDIA

AUTOIGNITION TEMP

Specific Hazard(s): Emits toxic fumes under fire conditions. Section 6 - Accidental Release Measures

disposal. Ventilate area and wash spill site after material

Absorb on sand or vermiculite and place in closed containers for

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

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

pickup is complete. Section 7 - Handling and Storage

Suitable: Keep tightly closed.

and clothing. Avoid prolonged or repeated exposure.

ENGINEERING CONTROLS

METHODS FOR CLEANING UP

Store at -20°C Section 8 - Exposure Controls / PPE

under appropriate government standards such as NIOSH (US) or CEN

Safety shower and eye bath. Mechanical exhaust required.

User Exposure: Avoid inhalation. Avoid contact with eyes, skin,

PERSONAL PROTECTIVE EQUIPMENT Respiratory: Use respirators and components tested and approved

Appearance

Property

BP/BP Range

Freezing Point

Vapor Pressure

Vapor Density

Bulk Density

Odor Threshold

Solvent Content

Surface Tension

Partition Coefficient

Decomposition Temp.

Evaporation Rate

Saturated Vapor Conc. N/A

MP/MP Range

Volatile%

Viscosity

VOC Content Water Content

рΗ

HANDLING

(EU). Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Hand: Protective gloves.

GENERAL HYGIENE MEASURES Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Eye: Chemical safety goggles.

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Value

N/A

N/A

N/A

N/A

N/A

N/A

N/A N/A

N/A N/A

N/A

N/A

N/A N/A

N/A

N/A

N/A

Physical State: Liquid

At Temperature or Pressure

Flash Point N/A Explosion Limits N/A Flammability Autoignition Temp N/A Refractive Index N/A Optical Rotation N/A Miscellaneous Data N/A 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. HAZARDOUS POLYMERIZATION Hazardous Polymerization: Will not occur Section 11 - Toxicological Information ROUTE OF EXPOSURE Skin Contact: May cause skin irritation. Skin Absorption: May be harmful if absorbed through the skin. Eye Contact: May cause eye irritation. Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. Ingestion: May be harmful if swallowed.

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

toxicological properties have not been thoroughly investigated.

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APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION 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

Section 13 - Disposal Considerations

environmental regulations.

Section 14 - Transport Information

Section 15 - Regulatory Information

SIGNS AND SYMPTOMS OF EXPOSURE

No data available.

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DOT

Section 12 - Ecological 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.

afterburner and scrubber. Observe all federal, state, and local

UNITED STATES REGULATORY INFORMATION SARA LISTED: No CANADA REGULATORY INFORMATION WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR. DSL: No NDSL: No

Section 16 - Other Information DISCLAIMER For R&D use only. Not for drug, household or other uses. 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 Inc.,

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