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SIGMA-ALDRICH
                     MATERIAL SAFETY DATA SHEET
                                               Date Printed: 05/12/2009
                                               Date Updated: 01/30/2006
                                                           Version 1.3
Section 1 - Product and Company Information
Product Name
                              CARBOXYETHYL-GAMMA-AMINOBUTYRIC ACID
Product Number
                              C1181
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
                                                                SARA 313
CARBOXYETHYL-GAMMA-AMINOBUTYRIC
                                        4386-03-2
ACIDAPPROX. 97%
                C7H13NO4
Formula
                Butyric acid, 4-((2-carboxyethyl)amino)-
Synonyms
                 (6CI,7CI,8CI) * 4-((2-Carboxyethyl)amino)butanoic
                acid * Carboxyethyl-gamma-aminobutyric acid *
                Spermidic acid
                EK7730000
RTECS Number:
Section 3 - Hazards Identification
HMIS RATING
   HEALTH: 0
   FLAMMABILITY: 0
   REACTIVITY: 0
NFPA RATING
   HEALTH: 0
   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 breathing becomes difficult,
   call a physician.
DERMAL EXPOSURE
   In case of skin contact, flush with copious amounts of water for
   at least 15 minutes. Remove contaminated clothing and shoes.
   Call a physician.
EYE EXPOSURE
   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.
Section 5 - Fire Fighting Measures
FLASH POINT
   N/A
AUTOIGNITION TEMP
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 protective equipment.
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
Section 8 - Exposure Controls / PPE
ENGINEERING CONTROLS
  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.
   Hand: Compatible chemical-resistant gloves.
  Eye: Chemical safety goggles.
Section 9 - Physical/Chemical Properties
                        Physical State: Solid
Appearance
                        Value
                                            At Temperature or Pressure
Property
Molecular Weight
                        175.2 AMU
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                               www.sigma-aldrich.com
                       N/A
рΗ
BP/BP Range
MP/MP Range
                        N/A
Freezing Point
                       N/A
Vapor Pressure
Vapor Density
Saturated Vapor Conc. N/A
N/A
Bulk Density
Odor Threshold
                       N/A
Volatile%
                       N/A
VOC Content
                       N/A
Water Content
                       N/A
Solvent Content
                       N/A
                       N/A
Evaporation Rate
Viscosity
                        N/A
                       N/A
Surface Tension
Partition Coefficient
Decomposition Temp.
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,
   and nitrogen oxides.
HAZARDOUS POLYMERIZATION
   Hazardous Polymerization: Will not occur
Section 11 - Toxicological Information
ROUTE OF EXPOSURE
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Skin Contact: May cause skin irritation.
   Eye Contact: May cause eye irritation.
  Multiple Routes: May be harmful by inhalation, ingestion, or
   skin absorption.
CONDITIONS AGGRAVATED BY EXPOSURE
  The toxicological properties have not been thoroughly
   investigated.
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Mouse
783 MG/KG
LD50
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Section 12 - Ecological Information

Section 13 - Disposal Considerations

Proper Shipping Name: None

TOXICITY DATA

877 MG/KG LD50

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No data available.

transport.

DSL: No

DISCLAIMER

Rat

Intraperitoneal

Intraperitoneal

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 regulations. Section 14 - Transport Information

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

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

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Section 15 - Regulatory Information 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

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

contains all the information required by the CPR.

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NDSL: No
Section 16 - Other Information
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WARRANTY 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., 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 2009 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.