## MATERIAL SAFETY DATA SHEET

P21005

ALDRICH

Section 1 - Product and Company Information

Product Name

Brand

Product Number

Date Printed: 01/07/2009 Date Updated: 01/29/2006

4-PHENYLBUTYRIC ACID, 99%

Version 1.5

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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
4-PHENYLBUTYRIC ACID
                                        1821-12-1
Formula
                C10H12O2
Section 3 - Hazards Identification
EMERGENCY OVERVIEW
   Caution: Avoid contact and inhalation.
HMIS RATING
   HEALTH: 1
   FLAMMABILITY: 0
   REACTIVITY: 0
NFPA RATING
   HEALTH: 1
   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 contact, immediately wash skin with soap and copious
   amounts of water.
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
             > 113 °C Method: closed cup
   > 235 °F
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)
   Exercise appropriate precautions to minimize direct contact with
   skin or eyes and prevent inhalation of dust.
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.
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.
  Hand: Protective gloves.
   Eye: Chemical safety goggles.
GENERAL HYGIENE MEASURES
  Wash thoroughly after handling.
Section 9 - Physical/Chemical Properties
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                        Physical State: Solid
Appearance
                        Color: White
                        Form: Fine crystals
Property
                        Value
                                            At Temperature or Pressure
Molecular Weight
                       164.2 AMU
                       N/A
ЮH
                       165°C
BP/BP Range
                                            10 mmHg
                       49 °C
MP/MP Range
Freezing Point
                       N/A
Vapor Pressure
                       N/A
                       N/A
Vapor Density
Saturated Vapor Conc. N/A
SG/Density
                       N/A
Bulk Density
                        N/A
Odor Threshold
                        N/A
Volatile%
VOC Content
                        N/A
                        N/A
Water Content
Solvent Content
                        N/A
Evaporation Rate
                       N/A
Viscosity
                       N/A
                       N/A
Surface Tension
Partition Coefficient N/A
                      N/A
Decomposition Temp.
                       > 235 °F > 113 °C Method: closed cup
Flash Point
Explosion Limits
                       N/A
Flammability
                       N/A
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.
SIGNS AND SYMPTOMS OF EXPOSURE
   To the best of our knowledge, the chemical, physical, and
   toxicological properties have not been thoroughly investigated.
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Section 12 - Ecological Information
No data available.
Section 13 - Disposal Considerations
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
   afterburner and scrubber. Observe all federal, state, and local
   environmental regulations.
Section 14 - Transport Information
DOT
   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
   and eyes.
US CLASSIFICATION AND LABEL TEXT
   US Statements: Caution: Avoid contact and inhalation.
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: Yes
   NDSL: No
Section 16 - Other Information
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The above information is believed to be correct but does not

knowledge and is applicable to the product with regard to

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

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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