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SIGMA-ALDRICH
                      MATERIAL SAFETY DATA SHEET
                                                Date Printed: 12/23/2008
                                                Date Updated: 01/31/2006
                                                           Version 1.7
Section 1 - Product and Company Information
Product Name
                              B-PHENYLETHYLAMINE FREE BASE REDISTILLED
Product Number
                              P2641
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 #
                                                                SARA 313
B-PHENYLETHYLAMINE FREE BASE
                                         64-04-0
Formula
                C8H11N
                beta-Aminoethylbenzene * 2-Amino-fenylethan
Synonyms
                 (Czech) * 1-Amino-2-phenylethane *
                2-Amino-l-phenylethane * Benzeneethanamine * Ethylamine, 2-phenyl- * 2-Fenylethylamin (Czech)
                 * beta-Phenethylamine * beta-Phenylaethylamin
                 (German) * 1-Phenyl-2-amino-athan (German) *
                 1-Phenyl-2-aminoethane * Phenylethylamine *
                 beta-Phenylethylamine * omega-Phenylethylamine *
                 2-Phenylethylamine
RTECS Number:
                sG8750000
Section 3 - Hazards Identification
EMERGENCY OVERVIEW
   Corrosive.
   Harmful if swallowed. Causes burns.
   Combustible liquid. Possible sensitizer. Target organ(s): Nerves.
HMIS RATING
   HEALTH: 3*
   FLAMMABILITY: 2
   REACTIVITY: 1
NFPA RATING
   HEALTH: 3
   FLAMMABILITY: 2
   REACTIVITY: 1
   *additional chronic hazards present.
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. Do not induce vomiting.
INHALATION EXPOSURE
   If inhaled, remove to fresh air. If not breathing give
   artificial respiration. If breathing is difficult, give oxygen.
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
   177.8 °F
              81 °C Method: closed cup
EXPLOSION LIMITS
   Lower: 1 %
               Upper: 5.5 %
AUTOIGNITION TEMP
   425 °C
FLAMMABILITY
   N/A
EXTINGUISHING MEDIA
   Suitable: 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.
   Combustible liquid.
Section 6 - Accidental Release Measures
PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL
   Evacuate area.
PROCEDURE(S) OF PERSONAL PRECAUTION(S)
   Wear self-contained breathing apparatus, rubber boots, and heavy
   rubber gloves.
METHODS FOR CLEANING UP
   Cover with dry-lime, sand, or soda ash. Place in covered
   containers using non-sparking tools and transport outdoors.
   Ventilate area and wash spill site after material pickup is
   complete.
Section 7 - Handling and Storage
HANDLING
   User Exposure: Do not breathe vapor. Do not get in eyes, on
   skin, on clothing. Avoid prolonged or repeated exposure.
SIGMA - P2641
                                www.sigma-aldrich.com
                                                               Page
                                                                       -2
   Suitable: Keep tightly closed. Keep away from heat and open
   flame. Store under nitrogen.
   Incompatible Materials: Absorbs carbon dioxide from air.
   Store at 2-8°C
SPECIAL REQUIREMENTS
   Air sensitive. Store under inert gas.
Section 8 - Exposure Controls / PPE
ENGINEERING CONTROLS
   Safety shower and eye bath. Use only in a chemical fume hood.
PERSONAL PROTECTIVE EQUIPMENT
   Respiratory: Use respirators and components tested and approved
   under appropriate government standards such as NIOSH (US) or CEN
   (EU). Where risk assessment shows air-purifying respirators are
   appropriate use a full-face respirator with multi-purpose
   combination (US) or type ABEK (EN 14387) respirator cartridges as
   a backup to engineering controls. If the respirator is the sole
   means of protection, use a full-face supplied air respirator.
   Hand: Compatible chemical-resistant gloves.
   Eye: Chemical safety goggles.
   Other: Faceshield (8-inch minimum).
GENERAL HYGIENE MEASURES
   Wash contaminated clothing before reuse. Discard contaminated
   shoes. Wash thoroughly after handling.
Section 9 - Physical/Chemical Properties
Appearance
                        Physical State: Liquid
                        Color: Colorless
                                             At Temperature or Pressure
Property
                        Value
Molecular Weight
                        121.18 AMU
                                             20 °C Concentration: 4.3
                        11.5
                                             g/1
                       199.0 - 202.0 °C
BP/BP Range
                        - 60.0 °C
MP/MP Range
Freezing Point N/A
Vapor Pressure 0.3 mmHg
Vapor Density 4.18 g/1
Saturated Vapor Conc. N/A
SG/Density 0.962 g/cm3
                                             20 °C
Bulk Density
                        N/A
Odor Threshold
                    N/A
                       N/A
Volatile%
VOC Content
                       N/A
                       N/A
Water Content
                      N/A
N/A
< 0.01 Pas
N/A
Solvent Content
Evaporation Rate
                                             23 °C
Viscosity
Surface Tension
Partition Coefficient Log Kow: - 1.350
Decomposition Temp. N/A
                        177.8 °F 81 °C
Flash Point
                                            Method: closed cup
Explosion Limits
                       Lower: 1 %
Upper: 5.5 %
SIGMA - P2641
                               www.sigma-aldrich.com
                                                               Page 3
Flammability
                       N/A
Autoignition Temp
                        425 °C
Refractive Index
                        1.534
Optical Rotation
                        N/A
                        N/A
Miscellaneous Data
Solubility
                        N/A
N/A - not available
Section 10 - Stability and Reactivity
STABILITY
   Stable: Stable.
   Conditions to Avoid: Air.
   Materials to Avoid: Acids, Acid chlorides, Acid anhydrides, Strong
   oxidizing agents Carbon dioxide.
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
   Skin Contact: Causes severe burns.
   Skin Absorption: May be harmful if absorbed through the skin.
   Eye Contact: Causes severe burns.
   Inhalation: May be harmful if inhaled. Material is extremely
   destructive to the tissue of the mucous membranes and upper
   respiratory tract.
   Ingestion: Harmful if swallowed.
SENSITIZATION
   Sensitization: Prolonged or repeated exposure may cause allergic
   reactions in certain sensitive individuals.
TARGET ORGAN(S) OR SYSTEM(S)
   Nerves.
SIGNS AND SYMPTOMS OF EXPOSURE
   Material is extremely destructive to tissue of the mucous
   membranes and upper respiratory tract, eyes, and skin.
   Inhalation may result in spasm, inflammation and edema of the
   larynxand bronchi, chemical pneumonitis, and pulmonary edema.
Symptoms of exposure may include burning sensation, coughing,
   wheezing, laryngitis, shortness of breath, headache, nausea, and
   vomiting.
TOXICITY DATA
   Oral
   Rat
   300 mg/kg
   LD50
   Intraperitoneal
   Mouse
   175 MG/KG
   LD50
SIGMA - P2641
                               www.sigma-aldrich.com
                                                               Page
   Subcutaneous
   Mouse
   320 MG/KG
   LD50
   Intravenous
   Mouse
   100 MG/KG
   LD50
   Parenteral
   Mouse
   100 MG/KG
   LD50
   Intracervical
   Mouse
   39 MG/KG
   LD50
   Oral
   Guinea pig
   200 mg/kg
   Remarks: Behavioral:Convulsions or effect on seizure threshold.
   Behavioral:Ataxia. Behavioral:Somnolence (general depressed
   activity).
   Intraperitoneal
   Guinea pig
   200 MG/KG
   LD50
   Remarks: Behavioral:Somnolence (general depressed activity).
   Behavioral:General anesthetic. Behavioral:Ataxia.
   Skin
   Rabbit
   Remarks: Severe irritation effect
CHRONIC EXPOSURE - MUTAGEN
   Mutation test: Histidine reversion (Ames)
Section 12 - Ecological Information
ACCUMULATION
   Bioaccumulation Potential: No indication of
   bioaccumulation.
ACUTE ECOTOXICITY TESTS
   Test Type: LC50 Fish
   Species: Leuciscus idus
   Time: 96 h
   Value: 32.0 - 46.0 mg/l
ELIMINATION
   Classification: Substantially biodegradable.
ADDITIONAL RESULTS/DATA FROM RELEVENT SCIENTIFIC EXPERIMENTS
   Because of harmful effects on water organisms, this
   material should not be introduced into drains.
SIGMA - P2641
                                www.sigma-aldrich.com
                                                               Page 5
Section 13 - Disposal Considerations
APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION
   Contact a licensed professional waste disposal service to dispose
   of this material. This combustible material may be burned 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: Corrosive liquids, toxic, n.o.s.
   UN#: 2922
   Class: 8
   Packing Group: Packing Group II
   Hazard Label: Corrosive
   Hazard Label: Toxic substances.
   PIH: Not PIH
IATA
   Proper Shipping Name: Corrosive liquid, toxic, n.o.s.
   IATA UN Number: 2922
   Hazard Class: 8
   Packing Group: II
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EU ADDITIONAL CLASSIFICATION Symbol of Danger: C Indication of Danger: Corrosive. R: 22-34 Risk Statements: Harmful if swallowed. Causes burns. s: 26-36/37/39-45 Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). US CLASSIFICATION AND LABEL TEXT Indication of Danger: Corrosive. Risk Statements: Harmful if swallowed. Causes burns. Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). US Statements: Combustible liquid. Possible sensitizer. Target organ(s): Nerves. UNITED STATES REGULATORY INFORMATION SARA LISTED: No TSCA INVENTORY ITEM: Yes 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.

The above information is believed to be correct but does not

knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any

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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contains all the information required by the CPR.

DSL: Yes NDSL: No

SIGMA - P2641

DISCLAIMER

Section 16 - Other Information

Section 15 - Regulatory Information

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Page 7

Page 6