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SIGMA-ALDRICH

Material Safety Data Sheet

Date Printed: 12/03/2005
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Version 1.40

Section 1 - Product and Company Information

Product Name: Bupivacaine hydrochloride, minimum 99%
Product Number: B5274
Brand: Sigma Chemical
Company: Sigma-Aldrich
Street Address: 3050 Spruce Street
City, State, Zip, Country: SAINT LOUIS, MO 63103 US
Technical Phone: 314 771 5765
Fax: 800 325 5052
Emergency Phone: 414 273 3850 Ext. 5996

Section 2 - Composition/Information on Ingredient

Table with 5 columns: Substance Name, CAS #, SARA 313, EC no, Annex I Index Number. Row: BUPIVACAINE HYDROCHLORIDE, 14252-80-3, No.

Formula: C18H28N2O · HCl
Synonyms: AH-2250, (+)-Bupivacaine hydrochloride, 1-Butyl-2,6-pipecoloxylidide hydrochloride (+-), (+,-)-1-Butyl-2,6-pipecoloxylidide monohydrochloride, monohydrate, LAC-43, Marcaine hydrochloride, 2-Piperidinecarboxamide, 1-butyl-N-(2,6-dimethylphenyl)- monohydrochloride, monohydrate

Section 3 - Hazards Identification

Emergency Overview: Highly Toxic (USA) Very Toxic (EU). Very toxic by inhalation, in contact with skin and if swallowed.

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 immediately.

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

Autoignition Temp: 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 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: 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: Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

Storage: Suitable: Keep tightly closed.

Section 8 - Exposure Controls / PPE

Engineering Controls: Use only in a chemical fume hood.

Personal Protective Equipment: Respiratory: Government approved respirator. Hand: Compatible chemical-resistant gloves. Eye: Chemical safety goggles.

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General Hygiene Measures

Wash contaminated clothing before reuse. Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties**Appearance**

Physical State
Solid

Molecular Weight: 324.9 AMU

pH	N/A
BP/BP Range	N/A
MP/MP Range	N/A
Freezing Point	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A
SG/Density	N/A
Bulk Density	N/A
Odor Threshold	N/A
Volatile%	N/A
VOC Content	N/A
Water Content	N/A
Solvent Content	N/A
Evaporation Rate	N/A
Viscosity	N/A
Partition Coefficient	N/A
Decomposition Temp.	N/A
Flash Point °F	N/A
Flash Point °C	N/A
Explosion Limits	N/A

Flammability	N/A
Autoignition Temp	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, Nitrogen oxides, Hydrogen chloride gas.

Hazardous Polymerization
Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information**Route of Exposure****Skin Contact**

May cause skin irritation.

Skin Absorption

Toxic if absorbed through skin.

Eye Contact

May cause eye irritation.

Inhalation

Toxic if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion

Toxic if swallowed.

Sensitization**Sensitization**

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Signs and Symptoms of Exposure

Exposure can cause anesthesia, CNS stimulation, numbness of the tongue, nervousness, dizziness, blurred vision, nausea, vomiting, tremors, and convulsions. Overexposure can cause respiratory failure, coma, cardiac arrest, and death. Exposure during pregnancy can cause fetal bradycardia and death.

RTECS Number: TK6125000

Toxicity Data

Subcutaneous - Rat: 43 MG/KG (LD50)

Intravenous - Rat: 6 MG/KG (LD50)

Parenteral - Rat: 30 MG/KG (LD50)

Intraperitoneal - Mouse: 58700 UG/KG (LD50)

Remarks: Behavioral:Anticonvulsant.

Behavioral:Somnolence (general depressed activity).

Subcutaneous - Mouse: 59 MG/KG (LD50)

Intravenous - Mouse: 6100 UG/KG (LD50)

Intramuscular - Mouse: 22753 UG/KG (LD50)

Oral - Rabbit: 18 mg/kg (LD50)

Intravenous - Rabbit: 3400 UG/KG (LD50)

Parenteral - Rabbit: 48 MG/KG (LD50)

Intratracheal - Rabbit: 11 MG/KG (LD50)

Intraperitoneal - Guinea pig: 50 MG/KG (LD50)

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: Toxic solids, organic, n.o.s.
UN#: 2811
Class: 6.1
Packing Group: Packing Group II
Hazard Label: Toxic substances.
PIH: Not PIH

IATA

Proper Shipping Name: Toxic solid, organic, n.o.s.
IATA UN Number: 2811
Hazard Class: 6.1
Packing Group: II

Section 15 - Regulatory Information

EU Additional Classification

Symbol of Danger: T+

Indication of Danger

Very toxic.

Risk Statements R: 26/27/28

Very toxic by inhalation, in contact with skin and if swallowed.

Safety Statements S: 22 36/37/39 45

Do not breathe dust. 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

Highly Toxic (USA) Very Toxic (EU).

Risk Statements

Very toxic by inhalation, in contact with skin and if swallowed.

Safety Statements

Do not breathe dust. 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).

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.

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 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

