



Material Safety Data Sheet

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|--|--|---------------|---|-------------|---|------------|---|--|
| NFPA  | HMIS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #00FFFF;">Health Hazard</td> <td style="text-align: center; font-weight: bold;">2</td> </tr> <tr> <td style="background-color: #FFCCCC;">Fire Hazard</td> <td style="text-align: center; font-weight: bold;">1</td> </tr> <tr> <td style="background-color: #FFFF00;">Reactivity</td> <td style="text-align: center; font-weight: bold;">0</td> </tr> </table> | Health Hazard | 2 | Fire Hazard | 1 | Reactivity | 0 | Personal Protective Equipment  See Section 15. |
| Health Hazard | 2 | | | | | | | |
| Fire Hazard | 1 | | | | | | | |
| Reactivity | 0 | | | | | | | |

| Section 1. Chemical Product and Company Identification | | Page Number: 1 |
|--|---|---|
| Common Name/Trade Name | Tetracaine HCl | Catalog Number(s). TE128 CAS# 136-47-0 RTECS DG490000 TSCA TSCA 8(b) inventory: No products were found. CI# Not available. |
| Manufacturer | SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248 | IN CASE OF EMERGENCY CHEMTREC (24hr) 800-424-9300 CALL (310) 516-8000 |
| Commercial Name(s) | Tetracaine Hydrochloride | |
| Synonym | 4-Butylaminobenzoic acid-2-(dimethylamino) ethylester hydrochloride | |
| Chemical Name | Benzoic acid, 4-(Butylamino)-, 2-(dimethylamino) ethylester monohydrochloride | |
| Chemical Family | Not available. | |
| Chemical Formula | C ₁₅ H ₂₄ N ₂ O ₂ .HCl | |
| Supplier | SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248 | |

| Section 2. Composition and Information on Ingredients | | | | | |
|---|----------|--|---------------------------|---------------------------|-------------|
| | | <i>Exposure Limits</i> | | | |
| Name | CAS # | TWA (mg/m ³) | STEL (mg/m ³) | CEIL (mg/m ³) | % by Weight |
| 1) Tetracaine HCl | 136-47-0 | | | | 100 |
| Toxicological Data on Ingredients | | Tetracaine HCl: ORAL (LD50): Acute: 160 mg/kg [Mouse]. | | | |

| Section 3. Hazards Identification | |
|---|---|
| Potential Acute Health Effects | Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Severe over-exposure can result in death. |
| Potential Chronic Health Effects | Slightly hazardous in case of skin contact (sensitizer). CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs. |

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Section 4. First Aid Measures

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| Eye Contact | Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention. |
| Skin Contact | In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention. |
| Serious Skin Contact | Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention. |
| Inhalation | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. |
| Serious Inhalation | Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. Seek medical attention. |
| Ingestion | If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately. |
| Serious Ingestion | Not available. |

Section 5. Fire and Explosion Data

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| Flammability of the Product | May be combustible at high temperature. |
| Auto-Ignition Temperature | Not available. |
| Flash Points | Not available. |
| Flammable Limits | Not available. |
| Products of Combustion | These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...). |
| Fire Hazards in Presence of Various Substances | Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks. |
| Explosion Hazards in Presence of Various Substances | Risks of explosion of the product in presence of mechanical impact: Not available. Slightly explosive in presence of open flames and sparks. |
| Fire Fighting Media and Instructions | SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet. |
| Special Remarks on Fire Hazards | Not available. |
| Special Remarks on Explosion Hazards | Material in powder form, capable of creating a dust explosion. |

Section 6. Accidental Release Measures

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| Small Spill | Use appropriate tools to put the spilled solid in a convenient waste disposal container. |
| Large Spill | Poisonous solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. |

Section 7. Handling and Storage

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| Precautions | Keep locked up.. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, alkalis. |
| Storage | Keep container tightly closed. Keep container in a cool, well-ventilated area. |

Section 8. Exposure Controls/Personal Protection

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| Engineering Controls | Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. |
| Personal Protection | Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. |
| Personal Protection in Case of a Large Spill | Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. |
| Exposure Limits | Not available. |

Section 9. Physical and Chemical Properties

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|--------------------------------------|--|--------------|----------------|
| Physical state and appearance | Solid. (Solid crystalline powder.) | Odor | Odorless. |
| Molecular Weight | 300.83 g/mole | Taste | Not available. |
| pH (1% soln/water) | Not available. | Color | White. |
| Boiling Point | Not available. | | |
| Melting Point | 148°C (298.4°F) | | |
| Critical Temperature | Not available. | | |
| Specific Gravity | Not available. | | |
| Vapor Pressure | Not applicable. | | |
| Vapor Density | Not available. | | |
| Volatility | Not available. | | |
| Odor Threshold | Not available. | | |
| Water/Oil Dist. Coeff. | Not available. | | |
| Ionicity (in Water) | Not available. | | |
| Dispersion Properties | See solubility in water. | | |
| Solubility | Soluble in cold water, hot water. Miscible in water. | | |

Section 10. Stability and Reactivity Data

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| Stability | The product is stable. |
| Instability Temperature | Not available. |
| Conditions of Instability | Not available. |
| Incompatibility with various substances | Reactive with oxidizing agents, alkalis. |

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Corrosivity Non-corrosive in presence of glass.

Special Remarks on Reactivity Sensitive to light.

Special Remarks on Corrosivity Not available.

Polymerization Will not occur.

Section 11. Toxicological Information

Routes of Entry Inhalation. Ingestion.

Toxicity to Animals Acute oral toxicity (LD50): 160 mg/kg [Mouse].

Chronic Effects on Humans May cause damage to the following organs: central nervous system (CNS).

Other Toxic Effects on Humans Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals LD50[Rat] - Route: Intraperitoneal; Dose: 23500 ug/kg

Special Remarks on Chronic Effects on Humans Not available.

Special Remarks on other Toxic Effects on Humans

Acute Potential Health Effects:
 Skin: May cause skin irritation. May cause sensations of heat, cold or numbness.
 Eyes: Causes eye irritation. May cause sensations of heat, cold or numbness.
 Inhalation: May cause respiratory tract irritation.
 Ingestion: May cause gastrointestinal tract irritation with nausea and vomiting. May affect respiration (respiratory depression) and behavior/central nervous system (central nervous system depression, muscle weakness, euphoria, confusion, dizziness, light-headedness, twitching, tremors, drowsiness, convulsions, unconsciousness), ears (tinnitus), vision (blurred vision, double vision), cardiovascular system (hypotension, myocardial depression, bradycardia, and possibly cardiac arrest, or cardiovascular collapse).
 May cause sensations of heat, cold or numbness.
 Chronic Potential Health Effects:
 Skin: It may be a sensitizer and cause dermatitis, an allergic reaction.

Section 12. Ecological Information

Ecotoxicity Not available.

BOD5 and COD Not available.

Products of Biodegradation Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation Not available.

Section 13. Disposal Considerations

Waste Disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14. Transport Information

DOT Classification CLASS 6.1: Poisonous material.

Identification : Toxic Solid, organic, n.o.s. (Tetracaine Hydrochloride) UNNA: 2811 PG: III

Special Provisions for Transport Not available.

DOT (Pictograms)



Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations No products were found.

California Proposition 65 Warnings

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications

WHMIS (Canada) Not controlled under WHMIS (Canada).

DSCL (EEC) R36/38- Irritating to eyes and skin. S2- Keep out of the reach of children. S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.)

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|---------------------|---|
| Health Hazard | 2 |
| Fire Hazard | 1 |
| Reactivity | 0 |
| Personal Protection | E |

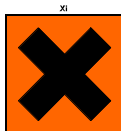
National Fire Protection Association (U.S.A.)

| | | |
|--------|--|-----------------|
| Health | | Flammability |
| | | Reactivity |
| | | Specific hazard |

WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



Protective Equipment



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent.



Splash goggles.

Section 16. Other Information

MSDS Code T3210

References Not available.

Other Special Considerations Not available.

Validated by Sonia Owen on 1/20/2003.

Verified by Sonia Owen.

Printed 1/22/2003.

CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.