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## MATERIAL SAFETY DATA SHEET (MSDS)

### TYRAMINE HYDROCHLORIDE (FOR BIOCHEMISTRY)

#### 1 - Chemical Product

MSDS Name: Tyramine hydrochloride

Synonym: 4-(2-Aminoethyl)phenol hydrochloride; p-hydroxyphenethylamine hydrochloride; Tyramine monochloride

Cas NO: 60-19-5

Product Coad: T0212900005

Molecular Formula: C<sub>8</sub>H<sub>11</sub>NO.HCl

Molecular Weight: 173.65

#### 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
60-19-5	TYRAMINE HYDROCHLORIDE	98	200-462-5

#### 3 - HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

Irritating to eyes, respiratory system and skin. The toxicological properties of this material have not been fully investigated.

##### Potential Health Effects

Eye: May cause eye irritation. Causes redness and pain.

Skin: May cause skin irritation. Causes redness and pain.

Ingestion: May cause irritation of the digestive tract. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic: Not available.

#### 4 - FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

#### 5 - FIRE FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

#### 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

#### 7 - HANDLING and STORAGE

Handling: Wash thoroughly after handling. Use with adequate ventilation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

Storage: Do not store in direct sunlight. Store in a tightly closed container. Store in a dry area.

#### 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 60-19-5: Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29

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CFR 1910.133 or European Standard EN166.

Skin:Wear appropriate protective gloves to prevent skin exposure.

Clothing:Wear appropriate protective clothing to prevent skin exposure.

Respirators:Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Solid

Color: slightly beige

Odor: Practically odorless

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: 269 deg C @ 760.00mm Hg

Freezing/Melting Point: 271 - 274 deg C

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water: moderately soluble in water (10%)

Specific Gravity/Density:

**10 - STABILITY AND REACTIVITY**

Chemical Stability:Stable under normal temperatures and pressures.

Conditions to Avoid:Incompatible materials, light, excess heat.

Incompatibilities with Other Materials:Strong oxidizing agents, acid chlorides, acid anhydrides Hazardous Decomposition Products:Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

**11 - TOXICOLOGICAL INFORMATION**

RTECS#:

CAS# 60-19-5: SJ6050000 LD50/LC50:

Not available.

Carcinogenicity:

TYRAMINE HYDROCHLORIDE - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

**12 - ECOLOGICAL INFORMATION****13 - DISPOSAL CONSIDERATIONS**

Dispose of in a manner consistent with federal, state, and local regulations.

**14 - TRANSPORT INFORMATION**

IATA

Not regulated as a hazardous material.

IMO

Not regulated as a hazardous material.

RID/ADR

Not regulated as a hazardous material.

**15 - REGULATORY INFORMATION**

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system

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and skin.

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 60-19-5: 1

Canada

CAS# 60-19-5 is listed on Canada's DSL List.

CAS# 60-19-5 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 60-19-5 is listed on the TSCA inventory.

**16. Other Information**

**Product Use:** Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**