

# **TYRAMINE:HCL (1,1,2,2-D4, 98%)**

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 31/05/2011 Revision date: 15/06/2017 Supersedes: 31/05/2011 Version: 2.0

DLM-8075

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

Product form : Substance

Substance name : TYRAMINE:HCL (1,1,2,2-D4, 98%)

EC No : 200-462-5 (Unlabeled)

CAS No : 1189884-47-6 Product code : DLM-8075

Formula : HOC6H4CD2CD2NH2·HCI

Synonyms : Tyrosaminehydrochloride / 4-(2-Aminoethyl)phenolhydrochloride / 4-

Hydroxyphenethylaminehydrochloride

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

### 1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only

## 1.2.2. Uses advised against

No additional information available

## 1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA

USA: 1-800-322-1174 Int: 1-978-749-8000 <u>cilsales@isotope.com</u> www.isotope.com

## **Emergency telephone number**

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335

Full text of hazard classes and H-statements : see section 16

# Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R36/37/38

Full text of R-phrases: see section 16

# **GHS-US** classification

Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335

Full text of H statements : see section 16

## Adverse physicochemical, human health and environmental effects

No additional information available

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### 2.2. Label elements

## Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP) : Warning

Hazard statements (CLP) : H315 - Causes skin irritation

H319 - Causes serious eye irritation H335 - May cause respiratory irritation

Precautionary statements (CLP) : P261 - Avoid breathing dust, fume, gas, mist, spray, vapours

P264 - Wash hands, forearms and face thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective clothing, protective gloves P302+P352 - IF ON SKIN: Wash with plenty of water

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing

P312 - Call a doctor if you feel unwell

## **GHS-US** labelling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H315 - Causes skin irritation

H319 - Causes serious eye irritation H335 - May cause respiratory irritation

Precautionary statements (GHS-US)

: P261 - Avoid breathing dust, fume, gas, mist, spray, vapours

P264 - Wash hands, forearms and face thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective clothing, protective gloves P302+P352 - If on skin: Wash with plenty of water

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P312 - Call a doctor if you feel unwell

P321 - Specific treatment (see Hazardous component(s) for labelling on this label)

P332+P313 - If skin irritation occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

## 2.3. Other hazards

No additional information available

# **SECTION 3: Composition/information on ingredients**

## 3.1. Substances

Name	Product identifier	%	Classification according to Directive 67/548/EEC
TYRAMINE:HCL (1,1,2,2-D4, 98%)	(CAS No) 1189884-47-6 (EC No) 200-462-5 (Unlabeled) (EC Index No)	100	Xi; R36/37/38

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
TYRAMINE:HCL (1,1,2,2-D4, 98%)	(CAS No) 1189884-47-6 (EC No) 200-462-5 (Unlabeled) (EC Index No)	100	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Full text of R- and H-statements; see section 16

Name	Product identifier	%	GHS-US classification
TYRAMINE:HCL (1,1,2,2-D4, 98%) (Main constituent)	(CAS No) 1189884-47-6	100	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Full text of H-statements: see section 16

## **Mixtures**

Not applicable

## **SECTION 4: First aid measures**

## **Description of first aid measures**

: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area. First-aid measures general

: When symptoms occur: go into open air and ventilate suspected area. If not breathing, give First-aid measures after inhalation artificial respiration. Get medical advice/attention. Remove victim to fresh air and keep at rest in

a position comfortable for breathing.

First-aid measures after skin contact : Wash with plenty of soap and water. Get immediate medical advice/attention. Wash contaminated clothing before reuse. If skin irritation occurs: Get immediate medical

advice/attention. Specific treatment (see Hazard pictograms (CLP) on this label).

First-aid measures after eye contact Rinse cautiously with water for several minutes.

First-aid measures after ingestion Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

: May be harmful if inhaled. May cause respiratory irritation. Symptoms/injuries after inhalation

Symptoms/injuries after skin contact : Harmful in contact with skin. Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation. Symptoms/injuries after ingestion : May be harmful if swallowed.

## Indication of any immediate medical attention and special treatment needed

No additional information available

# **SECTION 5: Fire-fighting measures**

## **Extinguishing media**

Suitable extinguishing media : Water spray, dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

# Special hazards arising from the substance or mixture

No additional information available

## Advice for firefighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing

apparatus. Do not enter fire area without proper protective equipment, including respiratory

protection

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Wear recommended personal protective equipment.

# **SECTION 6: Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

**Emergency procedures** : Avoid breathing vapours, mist, gas. Avoid dust formation.

#### 6.1.2. For emergency responders

No additional information available

## **Environmental precautions**

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.

# Methods and material for containment and cleaning up

For containment : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

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## Reference to other sections

No additional information available

# **SECTION 7: Handling and storage**

# Precautions for safe handling

: Provide adequate ventilation to minimize dust and/or vapour concentrations. Avoid breathing Precautions for safe handling

dust, fume, gas, mist, spray, vapours, Aerosols. Use only outdoors or in a well-ventilated area.

Hygiene measures : Wash hands, forearms and face thoroughly after handling.

#### Conditions for safe storage, including any incompatibilities 7.2.

Technical measures : Store in a well-ventilated place. Keep container tightly closed. Storage conditions : Store at room temperature away from light and moisture.

## Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

### **Control parameters**

No additional information available

# **Exposure controls**

Appropriate engineering controls Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus. Personal protective equipment









Materials for protective clothing : Wear suitable protective clothing and gloves. : Wear suitable protective clothing and gloves. Hand protection

Wear eye protection. Chemical goggles or face shield with safety glasses. Eve protection

Wear suitable protective clothing, gloves and eye/face protection. Wear suitable protective Skin and body protection

In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator. Respiratory protection

Environmental exposure controls Avoid release to the environment.

## **SECTION 9: Physical and chemical properties**

## Information on basic physical and chemical properties

The properties listed below are for the solvent, the main component of this mixture.

 Solid Physical state

Appearance Crystalline solid. Molecular mass 177.66 g/mol (Labeled)

Colour Beige.

Odour No data available. No data available Odour threshold рΗ No data available Relative evaporation rate (butylacetate=1) : No data available

Melting point : 271 - 274 °C (520 - 525 °F) - lit.

Freezing point : No data available Boiling point No data available Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature No data available Flammability (solid, gas) No data available Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available Solubility No data available : No data available Log Pow Log Kow : No data available

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Viscosity, kinematic : No data available : No data available Viscosity, dynamic Explosive properties : No data available Oxidising properties : No data available : No data available Explosive limits

## Other information

No additional information available

# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

### **Chemical stability**

Stable if stored under recommended conditions.

## Possibility of hazardous reactions

No additional information available

#### 10.4. **Conditions to avoid**

Light.

#### 10.5. Incompatible materials

Strong oxidizing agents. Acid chlorides. Acid anhydrides.

## **Hazardous decomposition products**

Carbon oxides (CO, CO2). Nitrogen oxides. Hydrogen chloride.

# **SECTION 11: Toxicological information**

## Information on toxicological effects

: Not classified Acute toxicity

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : mouse lymphocyte Mutation in microorganisms . mouse lymphocyte Mutation in mammalian

somatic cells.

Carcinogenicity : Not classified Reproductive toxicity Not classified

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure Not classified Aspiration hazard : Not classified

Potential adverse human health effects and

symptoms

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be

construed as guaranteeing any specific property of the product.

Symptoms/injuries after inhalation : May be harmful if inhaled. May cause respiratory irritation.

Symptoms/injuries after skin contact Harmful in contact with skin. Causes skin irritation.

Symptoms/injuries after eye contact Causes serious eye irritation. Symptoms/injuries after ingestion : May be harmful if swallowed.

# **SECTION 12: Ecological information**

#### 12.1. **Toxicity**

No additional information available

# Persistence and degradability

No additional information available

## **Bioaccumulative potential**

No additional information available

# **Mobility in soil**

No additional information available

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## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and Local

environmental control regulations.

Product/Packaging disposal recommendations: : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed

professional waste disposal service to dispose of this material.

Ecology - waste materials : Dispose of as unused product.

# **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

## 14.1. UN number

Not applicable

## 14.2. UN proper shipping name

Not applicable

## 14.3. Additional information

Other information : No supplementary information available.

Special transport precautions : Not classified as dangerous in the meaning of transport regulations.

## **Overland transport**

No additional information available

# Transport by sea

No additional information available

## Air transport

No additional information available

# 14.4. Environmental hazards

Other information : No supplementary information available.

# 14.5. Special precautions for user

Special transport precautions : Not classified as dangerous in the meaning of transport regulations.

# 14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

# **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

TYRAMINE:HCL (1,1,2,2-D4, 98%) (1189884-47-6)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.	

# 15.2. International regulations

# **CANADA**

## TYRAMINE:HCL (1,1,2,2-D4, 98%) (1189884-47-6)

Listed on the Canadian DSL (Domestic Substances List)

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## 15.2.1. National regulations

No additional information available

## 15.3. US State regulations

TYRAMINE:HCL (1,1,2,2-D4, 98%)(1189884-47-6)	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List

# **SECTION 16: Other information**

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

## Full text of R-, H- and EUH-statements:

Eye Irrit. 2 Serious eye damage/eye irritation, Category 2  Skin Irrit. 2 Skin corrosion/irritation, Category 2  STOT SE 3 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation  H315 Causes skin irritation  H319 Causes serious eye irritation  H335 May cause respiratory irritation  R36/37/38 Irritating to eyes, respiratory system and skin  Xi Irritant		
STOT SE 3 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation R36/37/38 Irritating to eyes, respiratory system and skin	Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation R36/37/38 Irritating to eyes, respiratory system and skin	Skin Irrit. 2	Skin corrosion/irritation, Category 2
H319 Causes serious eye irritation H335 May cause respiratory irritation R36/37/38 Irritating to eyes, respiratory system and skin	STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H335 May cause respiratory irritation R36/37/38 Irritating to eyes, respiratory system and skin	H315	Causes skin irritation
R36/37/38 Irritating to eyes, respiratory system and skin	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
Xi Irritant	R36/37/38	Irritating to eyes, respiratory system and skin
	Xi	Irritant

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause

significant irritation.

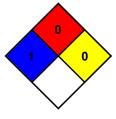
NFPA fire hazard : 0 - Materials that will not burn under typical dire conditions,

including intrinsically noncombustible materials such as

concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even

under fire conditions.



# **HMIS III Rating**

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard
Physical : 0 Minimal Hazard

## CIL Mixture SDS

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