

## Varenicline tartrate

**Cat#: orb105011 (MSDS)**

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifiers

Product Name: Varenicline tartrate

CAS Number: 375815-87-5

IUPAC Name: 7,8,9,10-Tetrahydro-6,10-methano-6H-pyrazino[2,3-h][3]benzazepine tartrate

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

Identified Uses: Laboratory chemicals, Manufacture of substances

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [GHS/CLP]**

Acute Toxicity, oral - Category 4

Acute, Aquatic Toxicity - Category 1

#### 2.2 Label elements

**Labeling according to Regulation (EC) No 1272/2008 [CLP]**

Pictogram(s):

Signal word: Warning

Hazard statement(s):

H302 Harmful if swallowed

H400 Very toxic to aquatic life

Precautionary statement(s):

P264 Wash hands thoroughly after handling

P273 Avoid release to the environment

P301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

#### 2.3 Other hazards - none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Product Name: Varenicline tartrate

Formula: C<sub>13</sub>H<sub>13</sub>N<sub>3</sub>.C<sub>4</sub>H<sub>6</sub>O<sub>6</sub> Molecular Weight: 361.37

CAS Number: 375815-87-5

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

Consult a doctor and show this safety data sheet.

#### If inhaled

Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

#### In case of skin contact

Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

#### In case of eye contact

Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

#### If swallowed

Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

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

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

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

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

In combustion, may emit toxic fumes.

### 5.3 Precautions for fire-fighters

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

### 6.2 Environmental precautions

Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up

Cover spillage with suitable absorbent material. Sweep up material and place in an appropriate container. Hold all material for appropriate disposal as described under section 13 of SDS.

### 6.4 Reference to other sections

For required PPE see section 8. For disposal see section 13.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

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

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Recommended storage temperature: Desiccate at RT

### 7.3 Specific end uses

Use in a laboratory fume hood where possible. Refer to employer's COSHH risk assessment.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Appropriate engineering controls

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

### **Personal protective equipment**

#### **Eye/face protection**

Use appropriate safety glasses.

#### **Skin protection**

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

#### **Body protection**

Wear appropriate protective clothing.

#### **Respiratory protection**

If risk assessment indicates necessary, use a suitable respirator.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 Information on basic physical and chemical properties**

Appearance White solid Vapor pressure No data available

Odor No data available Vapor density No data available

Odor threshold No data available Relative density No data available

pH No data available Solubility(ies) Soluble to 100 mM in water and to 50 mM in DMSO

Melting / freezing point No data available Partition coefficient No data available

Boiling point / range No data available Auto-ignition temperature No data available

Flash point No data available Decomposition temperature No data available

Evaporation rate No data available Viscosity No data available

Flammability (solid, gas) No data available Explosive properties No data available

Upper / lower flammability or explosive limits No data available Oxidising properties No data available

### **9.2 Other safety information**

No data available

## **10. STABILITY AND REACTIVITY**

### **10.1 Reactivity**

Stable under recommended transport or storage conditions.

### **10.2 Chemical stability**

Stable under recommended storage conditions.

### **10.3 Possibility of hazardous reactions**

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

### **10.4 Conditions to avoid**

Heat, moisture.

### 10.5 Incompatible materials

Strong acids/alkalis, strong oxidising/reducing agents.

### 10.6 Hazardous decomposition products

In combustion may emit toxic fumes. No known decomposition information.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute Toxicity

DERMAL-RAT LD50 >2000mg/kg

#### Skin corrosion/irritation

Classified based on available data

#### Serious eye damage/irritation

Classified based on available data

#### Respiratory or skin sensitization

Classified based on available data

#### Germ cell mutagenicity

Classified based on available data

#### Carcinogenicity

Classified based on available data

#### Reproductive toxicity

Classified based on available data

#### Specific target organ toxicity - single exposure

Classified based on available data

#### Specific target organ toxicity - repeated exposure

Classified based on available data

#### Aspiration hazard

Classified based on available data

#### Symptoms / Routes of exposure

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing. Absorption through the lungs can occur causing symptoms similar to those of ingestion. There may be shortness of breath.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Blood may be vomited. There may be vomiting and diarrhea.

Skin: Irritation or pain may occur at the site of contact. There may be redness or whiteness of the skin in the area of exposure. Absorption through the skin may be harmful.

Eyes: There may be pain and redness. The vision may become blurred. The eyes may water profusely. Absorption through the eye may cause effects similar to skin contact and/or ingestion.

Delayed / Immediate Effects: Immediate effects can be expected after short-term exposure.

#### Additional Information

Exposure may cause irritation of eyes, mucous membranes, upper respiratory tract and skin.

To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

Very toxic to aquatic life.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product

Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with National legislation.

#### Contaminated packaging

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with National legislation.

## 14. TRANSPORT INFORMATION

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID and IATA.

### 14.1 UN-Number

Does not meet the criteria for classification as hazardous for transport.

### 14.2 UN proper shipping name

Does not meet the criteria for classification as hazardous for transport.

#### **14.3 Transport hazard class(es)**

Does not meet the criteria for classification as hazardous for transport.

#### **14.4 Packaging group**

Does not meet the criteria for classification as hazardous for transport.

#### **14.5 Environmental hazards**

This product is not classified as environmentally hazardous according to the UN Model Regulations, nor a marine pollutant according to the IMDG Code.

#### **14.6 Special precautions for users**

No data available

### **15. REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

#### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No data available

##### **California Proposition 65**

Not applicable

#### **15.2 Chemical safety assessment**

A Chemical Safety Assessment has not been made for this product.