# **SAFETY DATA SHEETS**

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition

Version: 1.0

Creation Date: Aug 13, 2017

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## 1.Identification

## 1.1GHS Product identifier

Product name	3-Hydroxytyramine hydrochloride

#### 1.20ther means of identification

Product number	_
Other names	1,2-Benzenediol, 4-(2-aminoethyl)-, hydrochloride

## 1.3Recommended use of the chemical and restrictions on use

Identified uses	For industry use only.
Uses advised against	no data available

## 2.Hazard identification

## 2.1 Classification of the substance or mixture

Acute toxicity - Oral, Category 4

Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1

Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 1

## 2.2GHS label elements, including precautionary statements

Pictogram(s)	
Signal word	Warning

Hazard statement(s)	H302 Harmful if swallowed H410 Very toxic to aquatic life with long lasting effects
Precautionary statement(s)	
Prevention	P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment.
Response	P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/…if you feel unwell. P330 Rinse mouth. P391 Collect spillage.
Storage	none
Disposal	P501 Dispose of contents/container to

## 2.30ther hazards which do not result in classification

none

# 3. Composition/information on ingredients

## 3.1Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
3-Hydroxytyramine hydrochloride	3-Hydroxytyramine hydrochloride	62-31-7	none	100%

## 4.First-aid measures

# 4.1Description of necessary first-aid measures

## General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

## If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

## In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

no data available

## 4.3Indication of immediate medical attention and special treatment needed, if necessary

no data available

## 5. Fire-fighting measures

## 5.1Extinguishing media

#### Suitable extinguishing media

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

## 5.2Specific hazards arising from the chemical

no data available

### 5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 6.Accidental release measures

## 6.1Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

#### 6.2Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. Handling and storage

## 7.1Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## 8. Exposure controls/personal protection

## 8.1Control parameters

## Occupational Exposure limit values

no data available

#### **Biological limit values**

no data available

## 8.2Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 8.3 Individual protection measures, such as personal protective equipment (PPE)

## Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### **Respiratory protection**

Wear dust mask when handling large quantities.

#### Thermal hazards

no data available

## 9. Physical and chemical properties

Physical state	off-white crystals
Colour	no data available
0dour	no data available
Melting point/ freezing point	241-243°C
Boiling point or initial boiling point and boiling range	337.7°C at 760 mmHg
Flammability	no data available
Lower and upper explosion limit /	no data available

flammability limit	
Flash point	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
На	no data available
Kinematic viscosity	no data available
Solubility	In water:soluble
Partition coefficient n-octanol/water (log value)	-0.98
Vapour pressure	no data available
Density and/or relative density	no data available
Relative vapour density	no data available
Particle characteristics	no data available

# 10.Stability and reactivity

# 10.1Reactivity

no data available

# 10.2Chemical stability

Stable under recommended storage conditions.

# 10.3Possibility of hazardous reactions

no data available

# 10.4Conditions to avoid no data available 10.5Incompatible materials no data available 10.6 Hazardous decomposition products no data available 11. Toxicological information Acute toxicity Oral: no data available Inhalation: no data available Dermal: no data available Skin corrosion/irritation no data available Serious eye damage/irritation no data available Respiratory or skin sensitization no data available Germ cell mutagenicity no data available Carcinogenicity no data available Reproductive toxicity no data available STOT-single exposure no data available STOT-repeated exposure no data available Aspiration hazard no data available 12. Ecological information 12.1Toxicity

Toxicity to fish: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

## 12.2Persistence and degradability

no data available

## 12.3Bioaccumulative potential

no data available

## 12.4Mobility in soil

no data available

#### 12.50ther adverse effects

no data available

## 13.Disposal considerations

#### 13.1Disposal methods

#### **Product**

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

## 14.Transport information

#### 14.1UN Number

ADR/RID: UN3077 IMDG: UN3077 IATA: UN3077

## 14.2UN Proper Shipping Name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

## 14.3Transport hazard class(es)

ADR/RID: 9 IMDG: 9 IATA: 9

## 14.4Packing group, if applicable

ADR/RID: unknown IMDG: unknown IATA: unknown

### 14.5Environmental hazards

ADR/RID: yes IMDG: yes IATA: yes

# 14.6Special precautions for user

no data available

14.7Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

# 15. Regulatory information

# 15.1Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
3-Hydroxytyramine hydrochloride	3-Hydroxytyramine hydrochloride	62-31-7	none
European Inventory o	Listed.		
	Listed.		
United States Toxi	Listed.		
	Not Listed.		
N	Listed.		
Philippines Inventory o	Listed.		
	Not Listed.		
Chinese Chemical Invent	Not Listed.		

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Information on revision

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#### Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

#### References

- IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- eChemPortal The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en
- CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- ECHA European Chemicals Agency, website: https://echa.europa.eu/

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