



SAFETY DATA SHEET

Preparation Date: No data available Revision Date: 04/30/2015 Revision Number: G1

Product identifier

Product code: H2195

Product Name: 5-HYDROXYTRYPTAMINE HYDROCHLORIDE

Other means of identification

Synonyms: 5-Hydroxytryptamine hydrochloride

Serotonin hydrochloride

Serotonin HCI

1H-Indol-5-ol, 3-(2-aminoethyl)-, monohydrochloride

CAS #: 153-98-0
RTECS # NM2571000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use:
Uses advised against
No information available.
No information available

Supplier: Spectrum Chemicals and Laboratory Products, Inc.

14422 South San Pedro St. Gardena, CA 90248

(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral Category 3

Label elements

Product code: H2195

Danger

Hazard statements

Toxic if swallowed



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

Precautionary Statements - Response

Specific treatment (see .? on this label)

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
5-Hydroxytryptamine Hydrochloride 153-98-0	153-98-0	100	*

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention if irritation develops.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. In case of shortness of breath, give

oxygen. Get medical attention.

Product code: H2195 Product name: 5-HYDROXYTRYPTAMINE HYDROCHLORIDE **Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Immediate medical attention is required. Call a physician or Poison

Control Center immediately.

Most important symptoms and effects, both acute and delayed

Symptoms Toxic if swallowed. May cause eye/skin irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon monoxide; Carbon dioxide; Nitrogen oxides;

hydrogen chloride

Specific hazards:May be combustible at high temperatures

Special Protective Actions for Firefighters

Specific Methods: Water mist may be used to cool closed containers.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes

and clothing. Avoid dust formation. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so

Methods and material for containment and cleaning up

Methods for containment Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical

waste container

Methods for cleaning up Sweep up and shovel into suitable containers for disposal

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. All equipment used when handling the product must be grounded. Keep away from incompatible materials.

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HYDROXYTRYPTAMINE HYDROCHLORIDE

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe vapours/dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Hygroscopic. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep refrigerated. Keep at temperatures between 2 and 8 °C. Sensitive to light. Store in light-resistant containers. Store away from incompatible materials.

Incompatible Materials:

Oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

U.S Occupational Exposure Limits: Not determined

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
	None	None	None	None
5-Hydroxytryptamine Hydrochloride - 153-98-0				

Canada

Canada Occupational Exposure Limits: Not determined

Components	Alberta	British Columbia	Ontario	Quebec
	None	None	None	None
5-Hydroxytryptamine Hydrochloride -				
153-98-0				ļ.

Australia and Mexico

Occupational Exposure Limits for Australia and Mexico: Not determined

Components	Australia	Mexico
5-Hydroxytryptamine Hydrochloride	None	None
153-98-0		

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. 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.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Safety glasses. Safety glasses with side-shields.

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HYDROXYTRYPTAMINE

HYDROCHLORIDE

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

Respiratory protection: Wear respirator with dust filter...

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Solid. Powder. White. Off-white. Beige.

Odor: Taste Molecular/Formula weight:

No information available No information available 212.69

Formula: Flash point (°C): Flashpoint (°C/°F):

No information available No data available No information available.

Flash Point Tested according to: Lower Explosion Limit (%): Upper Explosion Limit (%): No information available No information available

Autoignition Temperature (°C/°F): pH: Melting point/range(°C/°F):

No information available No information available 149-173 °C/300-343.4 °F

Boiling point/range(°C/°F): Decomposition temperature(°C/°F): Bulk density:

No information available
No information available
No information available

Specific gravity: Vapor pressure @ 20°C (kPa): Density (g/cm3):

Evaporation rate:Vapor density:

No information available

VOC content (g/L):

No information available

No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

No information available

Miscibility: Solubility: Soluble in Water

10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability

Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Avoid dust formation. Dust may form explosive mixture in air. Fine dust

dispersed in air in sufficient concentrations, and in the presence of an ignition source

is a potential dust explosion hazard. Exposure to moist air.

Incompatible Materials: Oxidizing agents.

Hazardous decomposition products: Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx). Hydrogen chloride gas.

Other Information

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HYDROXYTRYPTAMINE HYDROCHLORIDE Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

Component Information

5-Hydroxytryptamine Hydrochloride - 153-98-0

LD50/oral/rat = No information available

LD50/oral/mouse = No information available

LD50/dermal/rat = No information available

LD50/dermal/rabbit = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation May cause irritation of respiratory tract.

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HYDROCHLORIDE

Ingestion Toxic if swallowed. May cause digestive (gastointestinal) tract irritation. May cause

hypermotility, diarrhea. May affect cardiovascular system (hypotension, cardiac arrhythmias). May affect respiration (dyspnea, respiratory depression). May affect behavior/central nervous system (somnolence, convulsions, tremor, ataxia).

Aspiration hazard No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available

Sensitization: No information available

Mutagenic Effects: May affect genetic material

Animal experiments showed mutagenic effects

Carcinogenic effects: Not considered carcinogenic

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
5-Hydroxytryptamine Hydrochloride	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity No data is available

Reproductive Effects:No information available **Developmental Effects:**No information available

Teratogenic Effects: May cause birth defects (teratogenic effects) based on animal test data

There are no adequate and well-controlled studies in humans

Specific Target Organ Toxicity

STOT - single exposure STOT - repeated exposure

Target Organs:

No information available No information available No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

13. DISPOSAL CONSIDERATIONS

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
5-Hydroxytryptamine Hydrochloride	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN2811

Proper Shipping Name: Toxic solids, organic, n.o.s.

Hazard Class: 6.1

Subsidiary Risk:

Packing Group: III ERG No: 154

Marine Pollutant

No data available

DOT RQ (lbs): No information available

Symbol(s):

TDG (Canada)

UN-No: UN2811

Proper Shipping Name: Toxic solid, organic, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Description: No information available

ADR

UN-No: UN2811

Proper Shipping Name: Toxic solid, organic, n.o.s.

Hazard Class: 6.1 Packing Group: III

Subsidiary Risk:
Classification Code:
Description:
No information available
No information available
No information available
No information available

IMO / IMDG

Product code: H2195

UN-No: UN2811

Proper Shipping Name: Toxic solid, organic, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Description:No information availableIMDG Page:No information availableMarine PollutantNo information available

EMS: F-A

14. TRANSPORT INFORMATION

MFAG: No information available Maximum Quantity: No information available

RID

UN-No: UN2811

Proper Shipping Name: Toxic solid, organic, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Classification Code: No information available Description: No information available

ICAO

UN-No: UN2811

Proper Shipping Name: Toxic solid, organic, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Description: No information available

IATA

UN-No: UN2811

Proper Shipping Name: Toxic solid, organic, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group: III ERG Code: 6L

Description: No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
5-Hydroxytryptamine Hydrochloride	Not Listed	Not present	Not present	Present (5)- 6504	Not present	Not present	Not present

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen			Female Reproductive
			Toxicity	Toxicity:
5-Hydroxytryptamine Hydrochloride	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Product code: H2195

'	Substances and their	Hazardous	Section 302 Extremely Hazardous Substances and RQs	Chemical Category	Section 313 - Reporting de minimis
5-Hydroxytryptamine Hydrochloride	None	None	None	None	None

U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
5-Hydroxytryptamine Hydrochloride	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

Non-controlled

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	Canada (DSL)	Canada (NDSL)
5-Hydroxytryptamine Hydrochloride	Not Listed	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory	
		Reporting	
5-Hydroxytryptamine Hydrochloride	Not listed	Not listed	

EU Classification

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

Components	Classification	Concentration Limits:	Safety Phrases
5-Hydroxytryptamine Hydrochloride		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Product code: H2195

Not dangerous

16. OTHER INFORMATION

Product code: H2195

Revision Date: 04/30/2015 Prepared by: Sonia Owen

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This

Safety Data Sheet (SDS) 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 SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. 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 SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet