

Safety Data Sheet

Release 3.0
Revision 03/25/2011
Date of issue 12/12/2016

1 Identification of the substance

Identification of the substance

Identification of the substance 5-Hydroxytryptamine, free base

Additional identification Serotonin base; 3-(2-Aminoethyl)-5-hydroxyindole

Biosynth catalog no. H-8000

REACH No. A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

Use of the substance/preparation

Identified uses reagent for life science

Restriction on use not for food or drug use, for laboratory use only

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2 Hazards identification

Possible Hazards (Summary)

Inhalation acute toxicity (Category 3)

Skin acute toxicity (Category 3)

Ingestion acute toxicity (Category 3)

GHS Labeling

Regulatory List
EC1272/08 Regulation (EC) 1272/2008 (GHS/CLP)

Symbol
GHS06 skull and crossbones

Pictogram



Signal Word
Danger Danger

Hazard Statement

H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H331 Toxic if inhaled.

Precautionary Statement

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Remove casualty to fresh air and keep at rest in a position comfortable for breathing.

Additional Information

Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated.

3 Composition/information on ingredients

Substance related information

Substance name 5-Hydroxytryptamine, free base
Synonyms Serotonin base; 3-(2-Aminoethyl)-5-hydroxyindole
Cas No. [50-67-9]
Formula C₁₀H₁₂N₂O

4 First aid measures

First Aid: Eye

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

First Aid: Skin

Wash immediately with plenty of water and soap for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothes before reuse. Call a physician.

First Aid: Ingestion

Wash out mouth with water provided person is conscious. Call a physician.

First Aid: Inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

Hints for Physician: Treatment

Treat symptomatically.

5 Firefighting measures

Extinguishing Media

Suitable

foam, dry extinguishing powder, carbon dioxide (CO₂), water spray jet

Unsuitable

not available

Hazards During Fire-Fighting

toxic fumes

Protective Equipment for Fire-Fighting

Wear a self-contained breathing apparatus and chemical protective clothing.

Fire-Fighting/Further Advice

Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

6 Accidental release measures

Personal Precautions

See protective measures under point 7 and 8.

Environmental Precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure all waste water is collected and treated via a waste water treatment plant.

Methods for Cleaning or Taking Up

not available

Further Accidental Release Measures

Avoid generation of dust. Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly. Ventilate affected area.

7 Handling and storage

Handling

Handling advice

Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling.

Storage

Storage temperature

store at -15°C

Storage condition

close container well, keep dry, keep under inert gas, protect from light

Storage Requirements

Keep away from incompatible substances. Keep container tightly closed when not in use.

8 Exposure controles/personal protection

Exposure controles

Industrial Hygiene

Mechanical exhaust required. Safety shower and eye shower.

Personal Protective Equipment

Respiratory Protection

Wear NIOSH/MSHA or European Standard EN 149 approved respirator.

Hand Protection

Wear compatible chemical-resistant gloves to prevent skin exposure.

Eye Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA.

Body Protection

Wear compatible chemical-resistant gloves and clothing to prevent skin exposure.

Advice on Safe Handling

Wear appropriate protective clothing to prevent exposure.

9 Physical and chemical properties

Color

off-white, slightly brown

Form

crystalline powder

Phase Transition Solid/Liquid

153 °C

Molar Mass

176,22 g/mol

10 Stability and reactivity

Conditions to Avoid

incompatible materials, moisture, light, air

Substances to Avoid

strong oxidizers

Decomposition Products

carbon dioxide, carbon monoxide, nitrogen oxides

11 Toxicological information

Acute Oral Toxicity

LD50 oral, Mouse, 50 mg/kg

Acute Dermal Toxicity

LD50, Mouse, 160 mg/kg

Assessment Toxicity to Reproduction

May cause reproductive effects based upon animal studies.

Assessment Teratogenicity

Possible teratogen. May affect fertility (pre-implantation mortality, litter size) and embryo or fetus (fetotoxicity).

Neurological Effects

May cause central nervous system depression.

Other Relevant Toxicity Information

Only selected Registry of toxic effects of chemical substances (RTECS) data is presented here. See actual entry in RTECS for

12 Ecological Information

Biodegradation

no data available

Bioaccumulation

no data available

Distribution in Environment

no data available

13 Disposal considerations

Advice on Disposal and Packaging*Advice on Disposal*

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and, Dispose of waste according to laws applicable.

14 Transport information**Road Transport (ADR/GGVS)**

<i>UN No.</i>	2811
<i>Class(es)</i>	6.1
<i>Packaging group</i>	III
<i>Proper Shipping Name</i>	Toxic solid, organic, n.o.s. (5-Hydroxytryptamine)

Air Transport (IATA)

<i>UN No.</i>	2811
<i>Class(es)</i>	6.1
<i>Packaging group</i>	III
<i>Proper Shipping Name</i>	Toxic solid, organic, n.o.s. (5-Hydroxytryptamine)

15 Other regulations**Other Regulations**

not available

16 Additional information**GHS Labeling***Regulatory List*

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