

SAFETY DATA SHEET
5-HTP (5-HYDROXY-TRYPTOPHAN)
PRODUCT # A-5-HTP-5020

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SECTION I – PRODUCT IDENTIFICATION

Product Name: L-5-Hydroxytryptophan
Synonyms: 5-Hydroxy-L-Tryptophan
Molecular Formula: C₁₁H₁₂N₂O₃
Formula Weight: 220.22
Registry# (RN, CAS): 4350-09-8
Melting Point (Mp): 270°C
Decomposition: 270°C
Alpha: -32.40 (c=1, H₂O on dry basis)
Structure Formula:

SECTION II – COMPOSITION

Composition:
L-5-Hydroxytryptophan: ≥98.0% (HPLC)

SECTION III – HAZARDS IDENTIFICATION

Appearance: White to grey white crystals.
Toxic. Warning! Harmful if swallowed. May cause respiratory and digestive tract irritation. May cause eye and skin irritation.

Potential Health Effects:

Eye: May cause eye irritation.
Skin: May cause skin irritation.
Ingestion: Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.
Inhalation: May cause respiratory tract irritation. May cause irritation of the mucous membranes.
Chronic: No information found.

SECTION IV – FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Importers and Distributors of Compounding Products

- Ingestion: Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.
- Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

SECTION V – ACCIDENTAL RELEASE MEASURES

- General Information: Use proper personal protective equipment.
- Spills/Leaks: Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

SECTION VI – HANDLING AND STORAGE

- Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.
- Storage: Store in a tightly closed container. Keep refrigerated. (Store 4-39°C). Store in a cool, dry area, away from incompatible substances.

SECTION VII – PHYSICAL AND CHEMICAL PROPERTIES

- Physical State: Crystals
- Appearance: White to grey white
- Odour: None reported
- pH: Not available
- Vapor Pressure: Not available
- Vapor Density: 7.59
- Evaporation Rate: Not available
- Viscosity: Not available
- Boiling Point: Not available
- Freezing/Melting Point: 270°C
- Decomposition Temperature: >270°C
- Solubility: Slightly soluble
- Specific Gravity/Density: Not available
- Molecular Formula: C₁₁H₁₂N₂O₃
- Molecular Weight: 220.23

SECTION VIII – STABILITY AND REACTIVITY

- Chemical Stability: Stable under normal temperatures and pressures.
- Conditions to Avoid: Incompatible materials, dust generation, strong oxidants.
- Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.

Hazardous Polymerization: Has not been reported.

SECTION IX – TOXICOLOGICAL INFORMATION

LD50/LC50:

Oral, Mouse: LD50 = 5.4657 g/kg

Epidemiology: No information found

Teratogenicity: Teratogenic effects have occurred in experimental animals.

Reproductive Effects: Adverse reproductive effects have occurred in experimental animals.

Mutagenicity: No information found

Neurotoxicity: No information found

Fire Fighting Measures:

Extinguishing Media: Atomized water, powder, foam, sand, CO₂

Special Information: Not listed

Personal Protective Equipment: Gloves, protective clothing, breathing equipment as for fire brigade.

Combustion Products: Nitrogen oxides, chlorine, hydrogen chloride, sulphur dioxides, carbon monoxide, carbon dioxide, water.

Exposure Control/Personal Protection:

Technical Installation: Local ventilation and/or general ventilation.

Limit Values:

OEL_STEL: Not known Ref.:

OEL: 0.39 g/ml Ref.: OEL values.

Personal Protection:

Eyes: Safety glasses. In manufacturing units, see respiration.

Skin: Suitable gloves (plastic), closed working clothes. Open processes in production, closed working clothes with disposable clothes.

Inhalation: Lab: in the hot or local ventilation, full face mask with P3 dust filter with or without multi-purpose charcoal filter (e.g. ABEK-P3).

SECTION X – ECOLOGICAL INFORMATION

Distribution over Environmental Compartments:

Eco-Toxicological Data: Safe or not listed.

SECTION XI – DISPOSAL CONSIDERATIONS

Not Allowed via Dust-Bin or Sewerage: Comply with the following directives: handle waste according to current procedures drawn up by the Environment Department or according to local bylaws.

Transport Information:

Packing Method: Closed storing in the pressured PE or paper drums with inner two PE bag.

Cautions for Transport: Care must be given to prevent from heat, wet, and static electricity.

Additional Information:

SECTION XII – REGULATION INFORMATION

Regulation Information:

Safety administration regulation on chemical hazardous products (issued by the State Council in Feb 17, 1987);

Hazardous goods classification and code numbering on its name (GB 6944-86); MSDS instruction drafting regulation for chemical products (GB 16483-2000);

Notice for conducting the registration of hazardous chemical products (Guojing Mao An Quan [1000] 1039#); Classification and Indication on common hazardous chemical products (GB 13690-92); Regulation for Safety usage of chemical products at the working site ([1996] Lao Bu Fa 423#);

Fire-fighting and safety monitoring control regulations on easy flammable and explosive chemical products.

SECTION XIII – OTHER INFORMATION

References:	Flux Standard Operating Process.
Date Prepared:	09/01/2017
Drafted By:	Safety & Environmental Protection Dept., R&D Dept.
Revise Description:	Not listed.
Other Information:	Not listed.