

SAFETY DATA SHEET

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Section 1, Identification

- Catalog Number: ACT-100-HOBt, ACT-500-HOBt, ACT-1K-HOBt
- Product Name: 6-Cl-HOBt
- Alternate Name: 6-Chloro-1-hydroxybenzotriazole dehydrate, Cl-HOBt
- Chemical family: Activator
- Recommended Use: Peptide Synthesis
- Restrictions on Use:

Section 2, Hazard(s) Identification

- **Emergency Overview:**
 - Warning! Toxic by ingestion. Acute toxicity (Category 4). Harmful if swallowed
- **Routes of Entry:**
 - Dermal contact. Eye contact. Inhalation. Ingestion
- **Potential Acute Health Effects:**
 - Eyes: Hazardous in case of eye contact
 - Skin: Hazardous in case of skin contact. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally blistering
 - Inhalation: Hazardous in case of inhalation (lung irritant)
 - Ingestion: Hazardous in case of ingestion

Section 3, Composition/information on Ingredients

Components	CAS#	Chemical Formula	Molecular Weight
6-Cl-HOBt	26198-19-6	C ₆ H ₄ ClN ₃ O	169.6 g/mol

Section 4, First-Aid Measures

- **Eye Contact:**
 - Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes
 - Cold water may be used
 - Do not apply neutralizing agents
 - Get medical attention immediately
- **Skin Contact:**
 - In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes
 - Cover the irritated skin with an emollient
 - Cold water may be used
 - Wash clothing before reuse. Thoroughly clean shoes before reuse.

- Get medical attention immediately
- **Inhalation:**
 - If inhaled, move to fresh air. If not breathing, give artificial respiration
 - If breathing is difficult, give oxygen
 - Get medical attention immediately
- **Ingestion:**
 - If swallowed, do not induce vomiting unless directed to do so by medical personnel
 - Never give anything by mouth to an unconscious person
 - Loosen tight clothing such as a collar, tie, belt or waistband
 - Get medical attention immediately

Section 5, Fire-Fighting Measures

- **Suitable Extinguishing Media:**
 - Water spray
 - Polyvalent foam
 - BC powder
 - Carbon dioxide
- **Special Exposure Hazards:**
 - Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides, hydrogen chloride gas
- **Special Protection Equipment for Firefighters:**
 - Compressed air/oxygen apparatus

Section 6, Accidental release measures

- **Person-related precautionary measures:** Avoid substance contact. Avoid formation/inhalation of dusts. Avoid breathing vapors, mist or gas
- **Environmental protection measures:** Do not allow to enter drains.
- **Procedures for cleaning/absorption:** Sweep up and shovel. Keep in suitable, closed containers for disposal

Section 7, Handling and storage

- **Handling:**
 - Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
- **Storage:**
 - Keep container in a cool, dry, well-ventilated area.
 - Keep closed tightly. Store between +2 to +8oC

Section 8, Exposure Controls/Personal Protection

- **Personal Protection:**
 - **Eye protection:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
 - **Hand protection:** 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.

- **Respiratory protection:** Required when dusts are generated. Filter P 2 (acc. To DIN 3181) for solid and liquid particles of harmful substances.
- **Skin and body protection:** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Section 9, Physical and Chemical Properties

- **Physical Appearance:** Solid, white
- **Odor:** NA
- **Boiling Point:** 190-195oC
- **Melting Point:** NA
- **Vapor Pressure (kPa/25°C):** NA
- **Vapor Density (Air = 1):** NA
- **Specific Gravity:** NA
- **pH Value:** NA
- **Flashpoint:** NA
- **Auto-Ignition Point:** NA
- **Explosion Limits:** NA
- **Solubility:** NA
- **Viscosity:** NA

Section 10, Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Reactivity/Hazardous Decomposition Products:** Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides, hydrogen chloride gas
- **Conditions/Materials to Avoid:** Strong oxidizing agents

Section 11, Toxicological information

- **Acute Toxicity:**
 - LD50 Oral Rat: NA
 - LD50 Dermal Rabbit: NA
 - LC50 Inhalation Rat: NA
- **Chronic Toxicity:**
 - Carcinogenicity (TLV): NA
 - IARC Classification: NA
- **Routes of Exposure:**
 - Ingestion, inhalation, eyes and skin. Substance is absorbed through the skin

Section 12, Ecological information*

Section 13, Disposal considerations*

- **EPA Waste Number:** N/A
- **Treatment:** Material does not have an EPA Waste Number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

Section 14, Transport information*

- **Proper Shipping Name:** 6-Chloro-1-hydroxybenzotriazole dihydrate
- **Transport by Road/Rail (ADR/RID):** Not subject to transport regulations

Section 15, Regulatory information*

- **OSHA:** Toxic by ingestion
- **SARA 302 Components:** NA
- **SARA 313 Components:** 6-Chloro-1-hydroxybenzotriazole dihydrate is not subject to reporting levels
- **SARA 311/312 Hazards:** NA
- **California Prop. 65 Component:** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16, Other Information

The information accumulated herein is believed to be accurate but is not warranted to be whether origination with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Gyros Protein Technologies.

*Note: Since other Agencies regulate this information, OSHA will not be enforcing Sections 12 through 15(29 CFR 1910.1200(g)(2)).