



SAFETY DATA SHEET

1-Hydroxybenzotriazole hydrate

Section 1. Chemical Identification

Product Name: 1-Hydroxybenzotriazole hydrate wetted with not less than 20 wt. % water.

Synonyms: HOBt hydrate

Product Number: CP-A4755, CP-B4755, CP-K4755

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: ChemPure Brand Chemicals
39103 Warren Road
Westland, Michigan 48185
USA

For More Information Call: 734-884-4773 (Monday – Friday 8:00am – 4:30pm)

In Case of Emergency Call: CHEMTREC 800-424-9300 (24hours/Day, 7 Days/Week)

Section 2. Hazard Identification

Classification of the substance or mixture

GHS Classification in accordance with 29CFR 1910 (OSHA HCS) Flammable Solids (Category 2), H228
For the full text of the H-Statements mentioned in this section, see **section 16**.

GHS Label Elements, Including Precautionary Statements



Signal Word Warning

Hazard Statement(s)

H228 Flammable Solid

Precautionary Statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P240 Ground/Bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating /lighting/ equipment.

P280 Wear protective gloves/protective clothing/ Eye protection/ face protection.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction.

Hazards not otherwise classified (HNOC) or not covered by GHS

Explosive when dry, risk of explosion if heated under confinement. Desensitized explosive.

Section 3. Composition/Information on Ingredients

Molecular Formula: $C_6H_5N_3O \cdot xH_2O$
Molecular Weight: 135.12 g/mol
Cas No. 123333-53-9
Purity: $\geq 99\%$ (HPLC)
Added: $\geq 20\%$ water

No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.

Section 4. First-Aid Measures

Description of First Aid Measures

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance.
Move out of dangerous area.

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: Flush eyes with water as a precaution.

IF SWALLOWED: Do not induce vomiting. Never give anything by mouth to an unconscious person . Rinse mouth with water. Consult a physician.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED.

The most important known symptoms and effects are described in the labeling (see Section 2.2) and/or in Section 11.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED.

No data available.

Section 5. Fire and Explosion Data

EXTINGUISHING MEDIA

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Hazards Arising from the substance or mixture: Carbon oxides, Nitrogen oxides (NOX).

Advice for Firefighters: Wear self-contained breathing apparatus for fire fighting if necessary.

Further Information: Use water spray to cool unopened containers.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Avoid dust formation. Avoid Breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. For personal protection see Section 8.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and Materials for containment and cleaning up: Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see Section 13). Keep in suitable closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see Section 13).

Reference to other Sections: For disposal see Section 13.

Section 7. Handling and Storage

Precautions for Safe Handling: Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition – No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see Section 2.2 .

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well ventilated place. Keep in a dry place.

Specific End Use(s): Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

Section 8. Exposure Control/Personal Protection

Control Parameters

Components with Workplace Control Parameters: Contains no substances with occupational exposure limit values.

Exposure Controls

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

Personal Protective Equipment

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: 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.

Full contact material: Nitrile rubber. Minimum layer thickness: 0.11mm. Break through time: 480min. Material tested: Dermatril (KCl 740, size M).
Splash contact material: Nitrile rubber. Minimum layer thickness: 0.11mm. Break through time: 480 min. Material tested: Dermatril (KCl 740, size M).
If used in solution, or mixed with other substances, and under conditions which differ from EN374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body protection: Flame retardant antistatic protective clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of Environmental Exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance: White to off-white crystalline powder.
Odor: No data available.
Odor threshold: No data available.
pH: No data available.
Melting/Freezing point: 151 – 162°C
Initial boiling point and range: No data available.
Flash point: No data available.
Evaporation rate: No data available.
Flammability (solid, gas): The substance or mixture is a flammable solid.
Upper/Lower Flammability or explosive limits: No data available.
Vapor pressure: No data available.
Vapor density: No data available.
Relative density: No data available.
Water solubility: No data available.
Partition coefficient (n-octanol/water): No data available.
Autoignition Temperature: No data available.
Decomposition temperature: No data available.

Viscosity: No data available.
Explosive properties: No data available.
Oxidizing properties: No data available.

Other safety information: No data available.

Section 10. Stability and Reactivity

Reactivity: No data available.
Chemical stability: No data available.
Possibility of Hazardous Reactions: No data available.
Conditions to avoid: Do not heat over 100°C . Avoid heat, flames and sparks. Avoid extremes of temperature and direct sun light.
Incompatible materials: Strong oxidizing agents, metals, strong acids, acid chloride, acid anhydrides.
Hazardous decomposition products: Other decomposition products - No data available. In the event of fire – see section 5.

Section 11. Toxicological information

Information on Toxicological Effects

Acute toxicity: Inhalation: No data available.
Dermal: No data available.

Skin corrosion/irritation: No data available.

Serious Eye Damage/ Eye irritation: No data available.

Respiratory or Skin Sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by OSHA.
Reproductive Toxicity: No data available.
Specific Target, Organ toxicity- Single Exposure: No data available.
Specific Target, Organ toxicity- Repeated Exposure: No data available.

Aspiration Hazard: No data available.
Additional Information: RTECS: Not available
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12. Ecological Information

Toxicity: No data available.
Persistence and degradability: No data available.
Bio accumulative Potential: No data available.
Mobility in soil: No data available.
Results of PBT and VPVB assessment: PBT/VPVB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effects: No data available.

Section 13. Disposal Considerations

Waste Treatment Methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated Packaging: Disposed of as unused product.

Section 14. Transportation Information

DOT (US)

Proper shipping name: 1-hydroxybenzoatetriaizole, monohydrate
UN Number: 3474
Class: 4.1
Packaging group: I
Marine Pollutant: No
Poison Inhalation Hazard: No

IMDG

Proper shipping name: 1-hydroxybenzoatetriaizole, monohydrate
UN Number: 3474
Class: 4.1
EMS-No: F-B, S-J
Marine Pollutant: No

IATA

Proper shipping name: 1-hydroxybenzoatetriaizole, monohydrate
UN Number: 3474
Class: 4.1

Packaging group: I

Section 15. Regulatory Information

SARA 302 Components: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA title III, Section 302.

SARA 313 Components: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Fire hazard.

Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components:

	Cas #	Revision Date
Water	7732-18-5	
1-Hydroxybenzotriazole hydrate	123333-53-9	
Wetted with no less than 20 wt.% water		

New Jersey Right to Know Components:

	Cas #	Revision Date
Water	7732-18-5	
1-Hydroxybenzotriazole hydrate	123333-53-9	
Wetted with no less than 20 wt.% water		

California Prop. 65 Components: This product does not contain any chemicals known to state of California to cause cancer, birth defects, or any other reproductive harm.

Section 16. Other Information

Full text of H-Statements referred to under Sections 2 and 3.

H228 Flammable Solid

HMIS Rating

Health Hazard: 0

Chronic Health Hazard:

Flammability: 0

Physical Hazard: 4

NFPA Rating

Health Hazard: 0

Fire Hazard: 0

Reactivity: 4

Material Safety Data Sheet Legend

MW:	Molecular weight
MF:	Molecular formula
VOC:	Volatile organic compounds
ACGIH:	American Conference of Governmental Industrial Hygienists
CAS:	Chemical Abstracts Service Registry Number
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit (OSHA)
TLV:	Threshold Limit Value (ACGIH)

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