



Product: HOBt.anhydrous  
SDS No: 311021  
Revision: 1.1

## Safety Data Sheet

### Section 1 - Product and Company Information

Product Name: HOBt.anhydrous  
Product Code: 311021  
Company: CSBio(Shanghai) Ltd  
EMERGENCY CONTACTS: Dr. Simon Zhu +86-21-50781655

### Section 2 - Hazards Identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

Repr. 1A H360 May damage fertility or the unborn child.



GHS07

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Eye Irrit. 2 H319 Causes serious eye irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



T; Toxic

R61: May cause harm to the unborn child.



Xn; Harmful

R20/21: Harmful by inhalation and in contact with skin.



Xi; Irritant

R36: Irritating to eyes.

Information concerning particular hazards

for human and environment: Not applicable

Other hazards that do not result in classification No information known.

#### 2.2 Label elements

Labelling according to Regulation (EC) No

1272/2008 The substance is classified and labelled according to the CLP regulation.

Hazard pictograms GHS02, GHS07, GHS08

Signal word Danger

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Hazard statements H226 Flammable liquid and vapour.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H319 Causes serious eye irritation.

H360 May damage fertility or the unborn child.

Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

## Section 3 - Composition/Information on Ingredients

Substance Name	HOBT.anhydrous
CAS No.	2592-95-2
Formula	$C_6H_5N_3O$

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

Seek immediate medical advice.

After skin contact Instantly wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing Seek medical treatment.

### 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

### 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

## Section 5 - Fire Fighting Measures

### 5.1 Extinguishing media

Suitable extinguishing agents Use carbon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling exposed containers.

### 5.2 Special hazards arising from the substance or mixture

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If this product is involved in a fire, the following can be released:

Carbon monoxide and carbon dioxide

### 5.3 Advice for firefighters

Protective equipment: Wear self-contained breathing apparatus.

Wear full protective suit.

## Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

6.2 Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.

Do not allow product to reach sewage system or water bodies.

Do not allow to enter the ground/soil.

6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

Prevention of secondary hazards: No special measures required.

6.4 Reference to other sections See Section 7 for information on safe handling

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

## Section 7 - Handling and Storage

7.1 Precautions for safe handling Keep containers tightly sealed.

Store in cool, dry place in tightly closed containers.

Ensure good ventilation/exhaustion at the workplace.

Open and handle container with care.

Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and containers: No special requirements.

Information about storage in one common storage facility: Store away from oxidizing agents.

Further information about storage conditions: Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

Keep in a Cool dry place( $\leq 25^{\circ}\text{C}$ )

Store in a locked cabinet or with access restricted to technical experts or their assistants.

7.3 Specific end use(s) No further relevant information available.

## Section 8 - Exposure Controls / PPE

8.1 Control parameters

Occupational Exposure limit values

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no data available

Biological limit values

no data available

## 8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures The usual precautionary measures should be adhered to in handling the chemicals.

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Maintain an ergonomically appropriate working environment.

Breathing equipment: Use breathing protection with high concentrations.

Protection of hands: Check protective gloves prior to each use for their proper condition.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Material of gloves Impervious gloves

Penetration time of glove material Not determined

Eye protection: Safety glasses

Face protection

Body protection: Protective work clothing.

## Section 9 - Physical/Chemical Properties

Appearance:	White to off white crystalline powder
Molecular Weight:	135.1
pH:	N/A
BP/BP Range:	N/A
MP/MP Range:	156-162°C
Freezing Point:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A
Saturated Vapor Conc.	N/A
SG/Density:	N/A
Bulk Density:	N/A
Odor Threshold:	N/A
Volatile%:	N/A

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VOC Content:	N/A
Water Content:	≤0.5%
Solvent Content:	N/A
Evaporation Rate:	N/A
Viscosity:	N/A
Surface Tension:	N/A
Partition Coefficient:	N/A
Decomposition Temp.:	N/A
Flash Point:	N/A
Explosion Limits:	N/A
Flammability:	N/A
Autoignition Temp:	N/A
Refractive Index:	N/A
Optical Rotation:	N/A
Miscellaneous Data:	N/A
Solubility:	N/A

## Section 10 - Stability and Reactivity

- 10.1 Reactivity No information known.
- 10.2 Chemical stability Stable under recommended storage conditions.  
Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known
- 10.4 Incompatible materials: Oxidizing agents
- 10.5 Hazardous decomposition products: Carbon monoxide and carbon dioxide  
Nitrogen oxides (NOx)

## Section 11 - Toxicological Information

Acute toxicity  
Oral: no data available  
Inhalation: no data available  
Dermal: no data available  
Skin corrosion/irritation  
no data available  
Serious eye damage/irritation  
no data available  
Respiratory or skin sensitization  
no data available

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Germ cell mutagenicity  
no data available  
Carcinogenicity  
no data available  
Reproductive toxicity  
no data available  
STOT-single exposure  
no data available  
STOT-repeated exposure  
no data available  
Aspiration hazard  
no data available

## Section 12 - Ecological Information

- 12.1 Toxicity  
Toxicity to fish: no data available  
Toxicity to daphnia and other aquatic invertebrates: no data available  
Toxicity to algae: no data available  
Toxicity to microorganisms: no data available
- 12.2 Persistence and degradability  
no data available
- 12.3 Bioaccumulative potential  
no data available
- 12.4 Mobility in soil  
no data available
- 12.5 Other adverse effects  
no data available

## Section 13 - Disposal Considerations

Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

## Section 14 - Transport Information

- 14.1 UN Number  
ADR/RID: UN1325    IMDG: UN1325    IATA: UN1325

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- 14.2 UN Proper Shipping Name  
ADR/RID: FLAMMABLE SOLID, ORGANIC, N.O.S.  
IMDG: FLAMMABLE SOLID, ORGANIC, N.O.S.  
IATA: FLAMMABLE SOLID, ORGANIC, N.O.S.
- 14.3 Transport hazard class(es)  
ADR/RID: 1.3C IMDG: 1.3C IATA: 1.3C
- 14.4 Packing group, if applicable  
ADR/RID: III IMDG: III IATA: III
- 14.5 Environmental hazards  
ADR/RID: no IMDG: no IATA: no
- 14.6 Special precautions for user  
no data available
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
no data available

## Section 15 - Regulatory Information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
Australian Inventory of Chemical Substances Substance is not listed.  
Standard for the Uniform Scheduling of Drugs and Poisons Substance is not listed.  
National regulations  
Information about limitation of use: Employment restrictions concerning young persons must be observed.  
Employment restrictions concerning women of child-bearing age must be observed.  
For use only by technically qualified individuals.  
Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.  
Other regulations, limitations and prohibitive regulations  
ELINCS (European List of Notified Chemical Substances) Substance is not listed.  
Substances of very high concern (SVHC) according to REACH, Article 57 Substance is not listed.  
REACH - Pre-registered substances Substance is listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## Section 16 - Other Information

### DISCLAIMER

For R&D use only. Not for drug, household or other uses.

### WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. CSBio (Shanghai) Ltd., shall not be held liable for any damage resulting from handling or from contact with

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the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.



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