



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Choline hydroxide
Producer: Binbo Biological Co., Ltd

2. INFORMATION OF PRODUCT

CAS-No.: 123-41-1
EINECS-No.: 204-625-1

3. HAZARDS IDENTIFICATION

This substance is considered to be non- hazardous for transport

4. FIRST AID MEASURES

Skin exposure: None
Eye exposure: Rinse with plenty of water.
Ingestion: None
First aid facilities: Not applicable
Advice to doctor: None

5. FIRE FIGHTING MEASURES

Suitable extinguishing media : None
SPECIAL RISKS : None
Wear self-contained breathing apparatus and protective clothing and gloves: None

6. ACCIDENTAL RELEASE MEASURES

Personal precautions such as: use gloves and mask
Environmental precautions such as : clean up material and forward to an approved disposal site.

7. HANDLING AND STORAGE

Handling: Avoid formation of aerosols and microorganism and impurity .
Storage: Store in a cool place. Keep container tightly closed in a dry, clean and well-ventilated place.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure standards: Not available
Engineering controls: Any equipment used to handle this products, should be designed to minimize the escape of aerosols, dust and vapors.
Protective equipment: Wear protective gloves, when there is a risk of getting in contact with the substance.
Educational demands: Instruction and knowledge of application of this product is in the safety data sheet.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : white power

Safety data: **Melting point:** no data available.

Boiling point: no data available.

Flash point: no data available

Ignition temperature :no data available. **Lower explosion limit :**no data available.

Upper explosion limit: no data available.

10. STABILITY AND REACTIVITY

Stability:stable.

No toxic odors and flammability;

nitrogen oxides sulfur oxides hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity no data available

Irritation and corrosion no data available

Sensitization no data available

Chronic exposure IARC: no data available

Signs and Symptoms of Exposure no data available

12. ECOLOGICAL INFORMATION

None

13. DISPOSAL CONSIDERATIONS

Product observes all federal, state, and local environmental regulations.

Contaminated packaging : Dispose of as unused product.

14. TRANSPORT INFORMATION

Keep transport clean, dry, ventilated, prevent sun, rain, moisture,mix transportation and storage with toxic and harmful and volatile odors items without mix transportation and storage with toxic and harmful and volatile odors items.

15. REGULATORY INFORMATION

Comply with USP Standard

16. OTHER INFORMATION

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions.It does not represent a guarantee for the product.