



## MATERIAL SAFETY DATA SHEET

Revision Date : 2017-01-01

### 1. IDENTIFICATION OF THE SUBSTANCE/TREPARATION AND THE COMPANY/UNDERTAKING

**Product name:** Citicoline Sodium  
**Supplier:** BINBO BIOLOGICAL CO.,LTD  
FENGCHENG ONE ROAD  
Xi'an  
China  
**Tel:** +86-13488214511

### 2.COMPOSITION/INFORMATION ON INGREDIENTS

Components	ACGIH Exposure Limits:	OSHA Exposure Limits:
Citicoline Sodium	None	None

### 3.HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** May cause skin irritation and/or dermatitis

**Principle routes of exposure:** Skin  
**Inhalation:** May cause irritation of respiratory tract  
**Ingestion:** May be harmful if swallowed  
**Skin contact:** May cause allergic skin reaction  
**Eye contact:** Avoid contact with eyes

**Statements of hazard** MAY CAUSE ALLERGIC SKIN REACTION.

**Statements of Spill of Leak Label** Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

### 4. FIRST AID MEASURES



<b>General advice:</b>	In the case of accident or if you fell unwell, seek medical advice immediately (show the label where possible). Move to fresh air, call a physician immediately.
<b>Inhalation:</b>	Rinse immediately with plenty of water and seek medical advice Do not induce vomiting without medical advice.
<b>Skin contact:</b>	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
<b>Ingestion:</b>	No information available
<b>Eye contact:</b>	No information available
<b>Protection of first – aiders:</b>	
<b>Medical conditions aggravated by exposure:</b>	None known

#### 5.FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Use dry chemical, CO2, water spray or “alcohol” foam
<b>Specific hazards:</b>	Burning produces irritant fumes.
<b>Special protective equipment for firefighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
<b>Flash point:</b>	Not determined
<b>Autoignition temperature:</b>	Not determined
<b>NFPA rating</b>	Not determined
NFPA Health:	1
NFPA Flammability:	1
NFPA Reactivity:	0

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Use personal protective equipment.
<b>Environmental precautions:</b>	Prevent product from entering drains.
<b>Methods for cleaning up:</b>	Sweep up and shovel into suitable containers for disposal

#### 7. HANDLING AND STORAGE



**Storage:**

Room temperature

**Handling:**

Use only in area provided with appropriate exhaust ventilation.

**Safe handling advice:**

Wear personal protective equipment.

**Incompatible products:**

Oxidising and spontaneously flammable products

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering measures:**

Ensure adequate ventilation.

**Respiratory protection:**

Breathing apparatus only if aerosol or dust is formed.

**Skin and body protection:**

Usual safety precautions while handling the product will provide adequate protection against this potential effect.

Safety glasses with side-shields

**Eye protection:**

PVC or other plastic material gloves

**Hand protection:**

Handle in accordance with good industrial hygiene and

**Hygiene measures:**

safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Melting point/range:**

No Data available at this time.

**Boiling point/range:**

No Data available at this time.

**Density:**

No data available

**Vapor pressure:**

No data available

**Evaporation rate:**

No data available

**Vapor density:**

No data available

**Solubility (in water):**

No data available

**Flash point:**

Not determined

**Autoignition temperature:**

Not determined

### 10. STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions.

**Polymerization:** None under normal processing.

**Hazardous decomposition products:** Thermal decomposition can lead to release of irritating gases and vapours such as carbon oxides.



**Materials to avoid:** Strong oxidising agents.

**Conditions to avoid:** Exposure to air or moisture over prolonged periods.

**11. TOXICOLOGICAL INFORMATION**

**Product information**

**Acute toxicity**

Components	RTECS Number:	Selected LD50s and LC50s
Citicoline Sodium	Not Available	Not Determined

<b>Chronic toxicity:</b>	Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.
<b>Local effects:</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
<b>Specific effects:</b>	May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.
<b>Primary irritation:</b>	No data is available on the product itself.
<b>Carcinogenic effects:</b>	No data is available on the product itself.
<b>Mutagenic effects:</b>	No data is available on the product itself.
<b>Reproductive toxicity:</b>	No data is available on the product itself.

**12. ECOLOGICAL INFORMATION**

<b>Mobility:</b>	No data available
<b>Bioaccumulation:</b>	No data available
<b>Ecotoxicity effects:</b>	No data available
<b>Aquatic toxicity:</b>	May cause long-term adverse effects in the aquatic environment.

Components	U.S. DOT –Appendix B – Marine Pollutants	U.S. DOT –Appendix B – Severe Marine Pollutants	United Kingdom – The red List:
Citicoline Sodium	Not Listed	Not Listed	Not Listed



Components	Germany VCI (WGK)	World Health Organization (WHO) – Drinking Water	Ecotoxicity – Fish Species Data
Citicoline Sodium	Not Listed	Not Listed	Not Listed

Components	Ecotoxicity – Freshwater Algae Data	Ecotoxicity – Microtox Data	Ecotoxicity – Water Flea Data
Citicoline Sodium	Not Listed	Not Listed	Not Listed

Components	EPA – ATSDR Priority List	EPA – HPV Challenge Program Chemical List	California – Priority Toxic Pollutants
Citicoline Sodium	Not Listed	Not Listed	Not Listed

**13. DISPOSAL CONSIDERATIONS**

**Waste from residues/unused products:**

Waste disposal must be in accordance with appropriate Federal, State and local regulations. This product, if unaltered by use, may be disposed of treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

**Contaminated packaging:**

Do not re-use empty containers.

**14. TRANSPORT INFORMATION**

**UN/Id No:** Not regulated

**DOT**

**Proper shipping name:** Not Regulated

**TGD(Canada)**

**WHMIS hazard class:** Non - controlled

**IMDG/IMO**

**IMDG – Hazard Classifications** Not Applicable



<b>Components</b>	<b>U.S. DOT –Appendix A Table 1 – Reportable Quantities</b>
Citicoline Sodium	Not Listed

<b>Components</b>	<b>U.S. DOT –Appendix B – Marine Pollutants</b>	<b>U.S. DOT –Appendix B – Severe Marine Pollutants</b>
Citicoline Sodium	Not Listed	Not Listed

**IMO – labels:**

**15. REGULATORY INFORMATION**

**International Inventories**

<b>Components</b>	<b>Inventory – United States TSCA – Sect.8(b)</b>	<b>Canada DSL Inventory List -</b>
Citicoline Sodium	Not Listed	Not Listed

**U.S. regulations:**

<b>Components</b>	<b>California proposition 65 -</b>	<b>Massachusetts Right to Know List:</b>	<b>New Jersey Right to Know List:</b>	<b>Pennsylvania Right to Know List:</b>
Citicoline Sodium	NA	Not Listed	Not listed	Not listed

<b>Components</b>	<b>Florida substance List:</b>	<b>Rhode Island Right to Know List:</b>	<b>Illinois – Toxic Air Contaminants</b>	<b>Connecticut – Hazardous Air</b>
Citicoline Sodium	Not Listed	Not Listed	Not listed	Not listed

<b>Components</b>	<b>SSARA 313 Emission reporting/Toxic Release of Chemicals</b>	<b>CERCLA/SARA – Section 302 Extremely Haz</b>	<b>NTP:</b>	<b>IARC:</b>
Citicoline		Not Listed	Not listed	Not listed



滨渤生物科技有限公司  
Binbo Biological Co., Ltd

Sodium
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<b>16. OTHER INFORMATION</b>
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**Prepared by:** Health & Safety

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**End of safety data sheet**