

## SAFETY DATA SHEET


### 1. IDENTIFICATION

Trade name	<b>BeriCos® OCT</b>
Substance name	Piroctone Olamine
INCI Name	Piroctone Olamine
Chemical Name	1-Hydroxy-4-methyl-6-(2,4,4-trimethylpentyl) 2-pyridon, monoethanolamine salt
Recommended use Restrictions on use	Cosmetics and personal care products and perfumes and fragrances. For industrial use only.
Manufacturer	Beri Pharma Co., Ltd.
Address	No. 2 Nanhua Fourth Road, Nanshui Town, Zhuhai, China
Tel	+86 756 8699456
Email	sales@zhberi.com

### 2. HAZARD IDENTIFICATION

Hazard Class and category code regulation EC 1272/2008 (CLP) & Globally Harmonized System of Classification and Labelling of Chemicals (GHS Rev. 9, 2021)

Hazard Class and Category Code(s)	Not a hazardous substance or mixture
Hazard statement code(s)	H315 Causes skin irritation. H319 Causes serious eye irritation.
Precautionary statement(s)	<ul style="list-style-type: none"> <li>• Precautions: <ul style="list-style-type: none"> <li>— P261 Avoid breathing dust/fume/gas/mist/vapors/spray</li> <li>— P272 Contaminated work clothing should not be allowed out of the workplace</li> <li>— P280 Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>— P273 Avoid release to the environment.</li> </ul> </li> <li>• Incident response: <ul style="list-style-type: none"> <li>— P302+P352 IF ON SKIN: Wash with plenty of soap and water.</li> <li>— P333+P313 If skin irritation or rash occurs : Get medical advice/attention</li> <li>— P321 Specific treatment (see ... on this label)</li> <li>— P362+P364 Take off contaminated clothing and wash before reuse</li> <li>— P391 Collect spillage.</li> </ul> </li> <li>• Safe storage: <ul style="list-style-type: none"> <li>— None</li> </ul> </li> <li>• Waste disposal:</li> </ul>

	--- P501 Dispose of contents/container to local law.
Pictogram	
Signal word	Warning

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	CAS No.	EC No.	Hazard statement code(s)	Percent (w/w) approx.
Piroctone Olamine	68890-66-4	272-574-2	H315/H319/P261/P261 /P272 /P280 /P273/P302+P352 /P333+P313/P321 /P362+P364 /P391 /P501	100%

### 4. FIRST AID MEASURES

General	If exposed or concerned: Get medical advice/attention.
Inhalation	Remove to fresh air. If breathing has ceased give artificial respiration. Obtain immediate medical attention
Skin contact	Remove contaminated clothing and wash affected area with soap and water immediately. If irritation or redness occurs obtain immediate medical attention.
Eye contact	Remove contact lenses, if worn and rinse open eye with at least 15 minutes under running water and apply sterile protective bandage. Obtain medical attention immediately.
Ingestion	Never give anything by mouth if patient is unconscious. Do not induce vomiting. Rinse mouth with water and obtain immediate medical attention.

### 5. FIRE FIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Exposure hazards	Carbon oxides, nitrogen oxides
Firefighting procedures	Wear self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes.
Protective equipment	A self-contained breathing apparatus and suitable protective clothing should be worn by fire fighters.
Special hazards by the product itself	None known

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe
----------------------	---

	areas. Avoid breathing dust.
Environmental precautions	Do not empty into drains / surface water.
Disposal	Disposal of waste in accordance with all applicable federal, state and local laws.
Methods for cleaning up	Take up mechanically or sweep up carefully and transfer to a suitable container for recovery or waste disposal (see section 13 disposal consideration). Avoid generation of dust. Ventilate the area and wash spill site after material pick-up is complete.

## 7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection
Storage	Store in cool place. Keep container tightly closed in a dry and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit	No data available
Exposure controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Occupational exposure controls	Wear recommended personal protective equipment as details below:
Personal protection	Chemical resistant gloves & safety glasses is must
Respiratory protection	Seek professional advice prior to respirator selection. Atmospheric level should be maintained below the exposure limit. If airborne concentrations is high use mask or respirator.
Hand protection	Wear chemical protective gloves
Eye protection	Wear safety glasses
Skin protection	Wear chemically protective clothing
Work practices	Eye wash facilities and a safety shower should be easily accessible. Before breaks and at the end of work thoroughly wash hands with soap and water. Wash contaminated clothing before use. Clean footwear before use.
Environmental exposure controls	All necessary precautions must be taken to avoid release into the environment. Refer to Local, State or Nationals Legislations for environment and pollution control.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Powder
Color	White to Light Yellow
Odor	No
Melting point	130-135.0°C
Boiling point	No boiling at decomposition temperature
Decomposition Temperature	235 °C
Flammability	Nonflammable
Explosion limit	No data available

Flash point	No data available
PH value	9.0-10.0 (1% suspension)
Viscosity	Not applicable
Vapor pressure (25°C, kPa)	No data available
Density / relative density	No data available
Ig P	2.707

## 10. STABILITY AND REACTIVITY

Reactivity	No hazardous reactions if stored and handled as prescribed/indicated.
Chemical stability	The product is stable if stored and handled as prescribed/indicated.
Possibility of hazardous reactions	Usual precautions for handling of chemicals should be observed.
Conditions to avoid	See SDS section 7 - Handling and storage.
Incompatible materials	Avoid contact with oxidizing substances
Hazardous decomposition products	No hazardous decomposition products known.

## 11. TOXICOLOGICAL DATA

<b>Acute toxicity</b>	<b>The product should not be classified as an acute toxic substance.</b> <b>Oral:</b> LD50- Lethal dose:8100mg/kg (Rat, Method OECD401). <b>Inhalation:</b> LC50>4.9 mg/l (Rat, Method OECD403) <b>Percutaneous:</b> LD50>2000 mg/kg (Rat, Method OECD402)
<b>Irritation</b>	<b>Skin contact:</b> Moderate irritating might occur under high concentration.( Rabbits, Method OECD404) <b>Eye contact:</b> Severe eye irritation might occur under high concentration. (Rabbits, Method FED. Reg., Vol.37, No.38, 1972)
<b>Respiratory/Skin sensitization</b>	No sensitization (guinea pigs, test method OECD406).
<b>Genetic toxicity</b>	No mutagenicity (Salmonella typhimurium, Ames test).
<b>Carcinogenicity</b>	No
<b>Reproductive toxicity</b>	No reproductive toxicity (NOEAL of rats > 100mg/kg/d).
<b>Developmental toxicity</b>	No
<b>Specific target organ toxicity (single exposure)</b>	No
<b>Repeated dose toxicity and Specific target organ toxicity (repeated exposure)</b>	No
<b>Aspiration hazard</b>	No

## 12. ECOLOGICAL INFORMATION

<b>Aquatic toxicity</b>	<b>Acute toxicity test to fish</b> LC50: 1.89mg/L/96h (zebrafish, test method OECD203) <b>Short-term toxicity to aquatic invertebrates</b> Daphnia magna acute activity inhibition test: EC50: 1.8mg/L/48h (Daphnia magna, test method OECD202) <b>Algal growth inhibition test:</b> EC50: 6.7mg/L/72h (Desmodesmus subspicatus, test
-------------------------	---

	method OECD201) <b>Toxicity to microorganisms:</b> EC50:583mg/L (test method OECD209)
<b>Persistence and degradability</b>	<b>Degradation rate:</b> > 96%, 28d (test method OECD303A).
<b>Bioaccumulation</b>	<b>Low bioaccumulation:</b> (Log KOW: 2.707).
<b>Mobility in soil (and other compartments if available)</b>	<b>Low mobility</b> (LogKOC: 3-5).

### 13. DISPOSAL CONSIDERATIONS

Product Disposal	Spillages should be disposed at an authorized site in accordance with local regulations. Dissolve and mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Contact a licensed professional waste disposal service to dispose of this material.
Uncleaned Containers	Consider local reuse or recycling. If this is not possible, dispose of as for product.

### 14. TRANSPORT INFORMATION

<b>UN number</b>	None. (Not dangerous goods)
<b>UN proper shipping name:</b>	None. (Not dangerous goods)
<b>Class</b>	Not classified
<b>Packaging group</b>	None. (Not dangerous goods)
<b>Environmental hazards</b>	No
<b>Marine pollutants</b>	No
<b>ADR/RID</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>IATA</b>	Not dangerous goods

### 15. REGULATORY INFORMATION

According to Directive 67/548/EEC or 1999/45/EC EEC Directives

<b>Symbol(s)</b>	Xn
<b>R Phrase(s)</b>	R22 Harmful if swallowed. R36 Irritating to eyes. R37 Irritating to respiratory system. R38 Irritating to skin.
<b>S Phrase (s)</b>	S 1 - Keep locked up S 20 - When using do not eat or drink S 23 - Do not breathe gas/fumes/vapor/spray S 26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S 27/28 - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. S 36/37/39 - Wear suitable protective clothing, gloves and eye/face protection. S 46 - If swallowed, seek medical advice immediately and show this container or label S 51 - Use only in well-ventilated areas S 63 - In case of accident by inhalation: remove casualty to fresh air and keep at rest S 64 - If swallowed, rinse mouth with water (only if the person is conscious)



## **16. OTHER INFORMATION**

The information contained in the safety data sheet (SDS) has been compiled from data considered to be accurate. This data is believed to be reliable, however it must be pointed out that values for certain properties are known to vary from source to source. This data is not to be construed as absolutely complete since additional data may be desirable when particular conditions or circumstances exist. It is the responsibility of the user to determine the best precautions necessary for the safe handling and use of this product for his applications. This data relates only to the specific material designated and not to be used in combination with any other material. Many federal and state regulations pertain directly or indirectly to the product end use and disposal of containers and unused material. It is the purchaser's responsibility to familiarize themselves with all applicable regulations. Beri Pharma Co., Ltd. makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances nor assumes any liabilities from the use of its products or information provided herein.