



## Hangzhou Tianlong Biotechnology Co., Ltd.

Add: Room 1906, Fengqi Times Tower, No.338, Fengqi East Road, Hangzhou, Zhejiang, China.

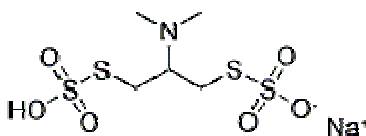
### MATERIAL SAFETY DATA SHEET

#### 1. Chemical Product and company Identification

Product Name: Monosultap

Molecular Formula: C<sub>5</sub>H<sub>12</sub>N O<sub>6</sub>S<sub>4</sub>Na

Structural Formula:



Molecular Weight: 333.4

Chemical Name: Sodium S,S'-(2-dimethylamino-1,3-propanediyl) bis (thiosulfate)

CAS No.: 52207-48-4

Supplier: HANZHOU TIANLONG BIOTECHNOLOGY CO., LTD

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#### 2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Monosultap	52207-48-4	95.00
Other ingredients		5.00

#### 3. Hazards Identification

Component	Symbol	R phrases
Monosultap	Xn	R21/22 R57

**More important danger for the man:** Harmful if swallowed;

**Dangers for the environment:** Toxic to silkworms;

**Physical-chemical dangers:** Not applicable.

#### 4. First Aid Measures

If poisoning occurs, immediately contact a doctor or Poisons Information Centre, and follow the advice given. Show this Material Safety Data Sheet to a doctor.

**Inhalation:** If breathed in, move person into fresh air. If not breathing give artificial respiration consult a physician.

**Skin contact:** Wash off with soap and plenty of water. Consult a physician.

**Eye contact:** Rinse thoroughly with plenty of water at least 15 minutes and consult a physician.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Note to physician:** There is no specific antidote. Treat symptomatically and

supportively in response to reactions from patient.

## 5. Fire-Fighting Measures

**Extinguishing media:** Use water spray, alcohol-resistant foam, carbon dioxide, dry chemical;

**Measures of personal protection:** Wear self contained breathing apparatus for fire fighting if necessary.

## 6. Accidental Release Measures

**Personal cautions:** Use personal equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

### Cleaning methods

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

### Environmental cautions

Do not let product enter drains.

## 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:** Recommend store in dry and ventilate place, guard against damp; Deep far from fire and heat. Warranty period: 2 years.

**Fire and explosion protection:** The area must be far from fire and flammable materials.

## 8. Exposure Controls / Personal Protection

### Personal protective equipment

Respiratory protection: Approved respirator;

Protective gloves: Rubber gloves;

Eye protection: Goggles;

**Industrial hygiene:** Use good industrial hygiene. Wear face shield or goggles, elbow length PVC gloves, cotton overalls buttoned to the neck and wrist, washable hat and half face respirator with dust and vapor cartridge. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

## 9. Physical And Chemical Properties

Appearance: White to slight yellow powder;

Boiling point: Not applicable;

Melting Point: 142-143 °C

Water solubility: 1.335g/mL at 20°C;

pH value: 4-5.5;

Flash point: Not applicable;

Ignition temperature: Not applicable.

## 10. Stability And Reactivity

**Stability:** Stable at normal temperatures and at pH 5 - 9, easily absorbs moisture, degraded by iron, easily decomposed in strong acids or strong alkalis.

**Conditions to avoid:** Fire, heat and high temperature;

**Products to avoid:** Strong oxidizing agents;

**Hazardous decomposition products:** May produce carbon oxides, nitrogen oxides, sodium oxides and sulphur oxides.

## 11. Toxicological Information

Acute oral LD<sub>50</sub> for male rats: 451 mg/kg;

Acute oral LD<sub>50</sub> for male mice: 89.9 mg/kg;

Acute oral LD<sub>50</sub> for female mice: 90.2 mg/kg;

Non-irritating to rabbit skin;

Non-irritating to rabbit eye;

Dermal sensitization: No data available;

**Chronic toxicity:** No data available.

**Other:** Not mutagenic, Not teratogenic, Not carcinogenic.

## 12. Ecological Information

**Effects on birds:**

No data available;

**Effects on aquatic organisms:**

Fish: LC<sub>50</sub>(48h) for carp: 9.2mg/L

**Effects on other organisms:**

No data available.

## 13. Disposal Considerations

Material that cannot be used at the site should be disposed of in an approved waste disposal facility following all applicable Federal, State and Local regulations. If burned, stay out of smoke. Do not contaminate water supplies by disposal of wastes or containers.

## 14. Transport Information

Not applicable

## 15. Regulatory Information

Not applicable

## 16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the PRODUCT AS SUCH. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of

persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.