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## Material Safety Data Sheet

### SECTION 1:CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: POPSO  
Company: Suzhou YACOO Science Co., Ltd.  
Address: No.128,FangZhou Road,Suzhou Industral Park,China  
Tel: 0512-87182055  
Fax: 0512-87182056

### SECTION 2: Hazards identification

2.1Classification of the substance or mixture  
Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.  
2.2Label elements  
Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.  
2.3Other hazards - none

### SECTION 3: Composition/information on ingredients

3.1Substances  
Synonyms: Piperazine-1,4-bis(2-hydroxypropanesulfonic acid)dihydrate  
Piperazine-N,N' -bis(2-hydroxypropanesulfonic acid)

Formula: C<sub>10</sub>H<sub>22</sub>N<sub>2</sub>O<sub>8</sub>S<sub>2</sub> · xH<sub>2</sub>O  
Molecular weight: 362,42 g/mol  
No components need to be disclosed according to the applicable regulations.

### SECTION 4: First aid measures

4.1Description of first-aid measures If inhaled  
If breathed in, move person into fresh air. If not breathing, give artificial respiration.  
In case of skin contact  
Wash off with soap and plenty of water.  
In case of eye contact



Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides Nitrogen oxides (NO<sub>x</sub>) Sulfur oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

## **SECTION 7: Handling and storage**

7.1 Precautions for safe handling

Advice on protection against fire and explosion

Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures

General industrial hygiene practice. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities Storage conditions

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Storage class

Storage class (TRGS 510): 13: Non Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## **SECTION 8: Exposure controls/personal protection**

8.1 Control parameters

Ingredients with workplace control parameters

8.2 Exposure controls

## Personal protective equipment

### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

### Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Do not let product enter drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- a) Physical state solid
- b) Color No data available
- c) Odor No data available
- d) Melting point/freezing point 300 ° C
- e) Initial boiling point and boiling range No data available
- f) Flammability (solid, gas) No data available
- g) Upper/lower flammability or explosive limits No data available
- h) Flash point Not applicable
- i) Autoignition temperature No data available
- j) Decomposition temperature No data available
- k) pH No data available
- l) Viscosity  
Viscosity, kinematic: No data available  
Viscosity, dynamic: No data available
- m) Water solubility No data available
- n) Partition coefficient: n-octanol/water No data available
- o) Vapor pressure No data available
- p) Density No data available  
Relative density No data available
- q) Relative vapor density No data available
- r) Particle characteristics No data available

s)Explosive properties No data available

t)Oxidizing properties No data available

9.2Other safety information

No data available

## **SECTION 10: Stability and reactivity**

10.1Reactivity

No data available

10.2Chemical stability

Stable under recommended storage conditions.

10.3Possibility of hazardous reactions

No data available

10.4Conditions to avoid

No data available

10.5Incompatible materials

Strong oxidizing agents, Strong bases

10.6Hazardous decomposition products

In the event of fire: see section 5

## **SECTION 11: Toxicological information**

11.1Information on toxicological effects Acute toxicity

Oral: No data available Inhalation: No data available Dermal: No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**SECTION 12: Ecological information**

## 12.1 Toxicity

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 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## 12.6 Endocrine disrupting properties

No data available

## 12.7 Other adverse effects

No data available

**SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

**SECTION 14: Transport information**

## 14.1 UN number

ADR/RID: -IMDG: -IATA: -

## 14.2 UN proper shipping name ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA:

Not dangerous goods

## 14.3 Transport hazard class(es)

ADR/RID: -IMDG: -IATA: -

## 14.4 Packaging group

ADR/RID: -IMDG: -IATA: -

## 14.5 Environmental hazards

ADR/RID: noIMDG Marine pollutant: noIATA: no

## 14.6 Special precautions for user

## Further information

Not classified as dangerous in the meaning of transport regulations.

**SECTION 15: Regulatory information**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

International Chemical Weapons Convention: (CWC) Schedules of Toxic Chemicals and Precursors

REACH - Restrictions on the manufacture, placing on the market and use of certain

dangerous substances, preparations and articles (Annex XVII)  
Regulation (EC) No 649/2012 of the European  
Parliament and the Council concerning the export and import of dangerous chemicals  
REACH - Candidate List of Substances of Very: High Concern for Authorisation (Article 59).  
This product contains a substance listed on Annex XIV of the REACH Regulation (EC) Nr.  
1907/2006.

Listed substance / Sunset Date:

After the sunset date the use of this substance requires either an authorization or can only be used for  
exempted uses, e.g. use in scientific research and development which includes routine analytics or  
use as intermediate.

Regulation (EC) No 1005/2009 on substances: that deplete the ozone layer

#### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

### **SECTION 16: OTHER INFORMATION**

The information above is believed to be accurate and represents the best information currently  
available to us. However, we make no warranty of merchantability or any other warranty, express or  
implied, with respect to such information, and we assume no liability resulting from its use. Users  
should make their own investigations to determine the suitability of the information for their  
particular purposes. In no way shall the company be liable for any claims, losses, or damages of any  
third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages,  
howsoever arising, even if the company has been advised of the possibility of such damages.