# SIGMA-ALDRICH

# **Material Safety Data Sheet**

Version 3.2 Revision Date 04/07/2011 Print Date 09/14/2011

1. PRODUCT AND COMPANY IDENTIFICATION			
Product name	:	POPSO hydrate	
Product Number Brand	:	P7088 Sigma	
Supplier	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA	
Telephone	:	+1 800-325-5832	
Fax	:	+1 800-325-5052	
Emergency Phone # (For both supplier and manufacturer)	:	(314) 776-6555	
Preparation Information	:	Sigma-Aldrich Corporation Product Safety - Americas Region 1-800-521-8956	

# 2. HAZARDS IDENTIFICATION

### **Emergency Overview**

### **OSHA Hazards**

No known OSHA hazards

Not a dangerous substance according to GHS.

HMIS	Classification
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Health hazard:	0
Flammability:	0
Physical hazards:	0
NFPA Rating	

Health hazard:	0
Fire:	0
Reactivity Hazard:	0

### **Potential Health Effects**

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

269-199-1

Synonyms	: Piperazine-1,4-b	Piperazine-1,4-bis(2-hydroxypropanesulfonic acid)dihydrate		
Formula Molecular Weight	: C10H22N2O8S2 : 362.42 g/mol	2 · 2H2O		
CAS-No.	EC-No.	Index-No.	Concentration	
POPSO dihydrate				

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918131-36-9

### **4. 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.

# **5. FIRE-FIGHTING MEASURES**

#### Suitable extinguishing media

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

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

### Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides

# 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Avoid dust formation. Avoid breathing vapors, mist or gas.

### **Environmental precautions**

Do not let product enter drains.

### Methods and materials for containment and cleaning up

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

# 7. HANDLING AND STORAGE

### Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### Conditions for safe storage

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

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### **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).

#### Hand 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.

#### Eye protection

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

### Skin and 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.

### **Hygiene measures**

General industrial hygiene practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

solid
no data available
no data available
300 °C (572 °F)
no data available
not applicable
no data available

# **10. STABILITY AND REACTIVITY**

# **Chemical stability**

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

Conditions to avoid no data available

Materials to avoid no data available

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides Other decomposition products - no data available

### **11. TOXICOLOGICAL INFORMATION**

### Acute toxicity

Oral LD50

no data available

### Inhalation LC50 no data available

Dermal LD50 no data available

# Other information on acute toxicity 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

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### **Reproductive toxicity**

no data available

### Teratogenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System) no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System) no data available

Aspiration hazard no data available

### Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.

# Synergistic effects no data available

**Additional Information** 

RTECS: Not available

# **12. ECOLOGICAL INFORMATION**

Toxicity

### no data available

# Persistence and degradability no data available

# **Bioaccumulative potential** no data available

# Mobility in soil

no data available

# PBT and vPvB assessment

no data available

### Other adverse effects

no data available

### **13. DISPOSAL CONSIDERATIONS**

# Product

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

# Contaminated packaging

Dispose of as unused product.

# **14. TRANSPORT INFORMATION**

**DOT (US)** Not dangerous goods

# IMDG

Not dangerous goods

### IATA

Not dangerous goods

### **15. REGULATORY INFORMATION**

### OSHA Hazards

No known OSHA hazards

# SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

# SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# SARA 311/312 Hazards

No SARA Hazards

# Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know Components

POPSO dihydrate	CAS-No. 918131-36-9	Revision Date
New Jersey Right To Know Components	CAS-No.	Revision Date
POPSO dihydrate	918131-36-9	Revision Date

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# California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# **16. OTHER INFORMATION**

### **Further information**

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