



Health	0
Fire	0
Reactivity	0
Personal Protection	

## Material Safety Data Sheet

### PIPES (Piperazine-N,N'-bis-(2-ethanesulfonic acid)), free acid

#### 1: Chemical Product and Company Identification

<b>Product Name :</b> PIPES (Piperazine-N,N'-bis-(2-ethanesulfonic acid)), free acid <b>Catalog Code :</b> 41620132 <b>CAS# :</b> Not available. <b>RTECS# :</b> Not available. <b>TSCA :</b> TSCA 8(b) inventory: No products were found. <b>CI# :</b> Not available. <b>Chemical Name :</b> PIPES (Piperazine-N,N'-bis-(2-ethanesulfonic acid)), free acid <b>Chemical Formula :</b> C <sub>8</sub> H <sub>18</sub> N <sub>2</sub> O <sub>6</sub> S <sub>2</sub> <b>Synonym :</b> Piperazine-1,4-bis(2-ethanesulfonic acid); 1,4-Piperazinediethanesulfonic acid; Piperazine-N,N'-bis(2-ethanesulfonic acid);	<b>Contact Information :</b> <b>bioWORLD</b> 4150 Tuller Road Suite 228 Dublin, OH 43017, USA <b>Phone Number :</b> 614-792-8680 <b>Fax Number :</b> 614-792-8685 <b>Order Online :</b> <a href="http://www.bio-world.com/">http://www.bio-world.com/</a> <b>E-mail :</b> <a href="mailto:save@bio-world.com">save@bio-world.com</a> <b>In Case of a chemical emergency:</b> Contact local hospital <b>For non-emergency assistance:</b> Call 1-800-860-9729
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#### 2: Composition and Information on Ingredients

Name	CAS#	% of weight
PIPES	5625-37-6	<=100%

**Toxicological Data :**  
Not available.

#### 3: Hazards Identification

**Potential Acute 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.

#### **Potentials Chronic Health Effects :**

**Carcinogenic Effects :** 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 or ACGIH.

**Mutagenic Effects :** Not available.

**Teratogenic Effects :** Not available.

**Developmental Toxicity :** Not available.

#### 4: First Aid Measures

**Eye Contact :** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Skin Contact :** In case of contact, immediately wash skin with soap and copious amounts of water. Call a physician if irritation persists.

**Serious Skin Contact** : Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

**Inhalation** : If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Serious Inhalation** : If breathed in, move person into fresh air. If not breathing give artificial respiration. Get medical attention.

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

**Serious Ingestion** : If swallowed, wash out mouth with water provided person is conscious. Call a physician.

## 5: Fire and Explosion Data

**Flammability of the Product** : Not flammable or combustible.

**Auto-Ignition Temperature** : Not available.

**Flash Points** : Not available.

**Flammable Limits** : Not available.

**Product of Combustion** : Hazardous decomposition products formed under fire conditions- Carbon oxides, nitrogen oxides (NOx), Sulphur oxides.

**Fire Hazards in Presence of Various Substances** : Not available.

**Explosion Hazards in Presence of Various Substances** : Not available.

**Fire Fighting Media and Instructions** :

SMALL FIRE : Dry chemical powder.

LARGE FIRE : Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

**Special Remarks on Fire Hazards** : Not available.

**Special Remarks on Explosion Hazards** : Not available.

## 6 : Accidental Release Measures

**Small Spill** : Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

**Large Spill** : Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## 7: Handling and Storage

**Precautions** : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

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

## 8: Exposure Controls/Personal Protection

**Engineering Controls** : Use mechanical exhaust or laboratory fumehood to avoid exposure.

**Personal Protection** : Respiratory : Government approved respirator.

Hand: Chemical resistant gloves.

Eye: Safety glasses.

**Personal Protection in Case of a Large Spill** : Splash goggles. Full suit. Boots. Dust respirator. Gloves.

**Exposure Limits** : Not available.

## 9: Physical and Chemical Properties

**Physical State and Appearance** : Powder

**Odor** : Not available.

**Taste** : Not available.

**Molecular Weight** : 302.37 g/mol

**Color** : White

**PH Value** : Not available.

**Boiling Point** : Not available.

**Melting Point** : Melting point/range: > 300 °C (> 572 °F).

**Critical Temperature** : Not available.

**Specific Gravity** : Not available.

**Vapour Pressure** : Not available.

**Vapor Density** : Not available.

**Volatility** : Not available.

**Odor Threshold**:Not available.

**Water/Oil Dist. Coeff** : Not available.

**Ionicity(in Water)** : Not available.

**Dispersion Properties** : Not available.

**Solubility** : Not available.

## 10: Stability and Reactivity Data

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

**Instability Temperature** : Not available.

**Conditions of Instability** : Not available.

**Incompatibility with various substances** : Strong oxidizing agents.

**Corrosivity** : Not available.

**Special Remarks on Reactivity** : Not available.

**Special Remarks on Corrosivity** : Not available.

**Polymerization** : Will not occur.

## 11: Toxicological Information

**Routes of Entry** : Skin contact. Eye contact. Ingestion. Inhalation.

**Toxicity to Animals** : Not available.

**Chronic Effects on Humans** : Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

**Other Toxic Effects on Humans** : Not available.

**Special Remarks on Toxicity to Animals** : Not available.

**Special Remarks on Chronic Effects on Humans** : Not available.

**Special Remarks on other Toxic Effects on Humans** : Not available.

### 12: Ecological Information

**Ecotoxicity** : Not available.

**BOD5 and COD** : Not available.

**Product of Biodegradation** : Not available.

**Toxicity of the Products of Biodegradation** : Not available.

**Special Remarks on the Products of Biodegradation** : Not available.

### 13: Disposal Considerations

**Waste Disposal** : Waste must be disposed of in accordance with federal, state and local environmental control regulations. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### 14: Transport Information

**DOT Classification** :

Not a DOT controlled material.

**IATA Classification** :

Not an IATA controlled material.

**IMDG Classification** :

Not a IMDG controlled material.

**Identification** : Not available.

**Special Provisions for Transport** : Not available.

### 15: Other Regulatory Information

**Federal and State Regulations** : TSCA 8(b) inventory: No products were found.

**Other Regulations** : Not available.

**Other Classifications** : Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

**WHMIS(Canada)** : Not WHMIS controlled.

**DSCL(EEC)** : Not available.

**HMIS(U.S.A)** :

**Health Hazard** : 0

**Fire Hazard** : 0

**Reactivity** : 0

**Personal Protection** : Not available.

**National Fire Protection Association (U.S.A)** :

**Health** : 0

**Flammability** : 0

**Reactivity** : 0

**Specific hazard** : Not available.

**Protective Equipment** : Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety

goggles.

## 16: Other Information

**References :** Not available.

**Other Special Considerations :**

**Created :** Not available. **Last Updated :** 03-31-2014 9:30:00 AM

### Disclaimer

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