

# MATERIAL SAFETY DATA SHEET

## **1 PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Liquid Gluconate 40

Formula:  $C_6H_{11}O_7 Na + C_6H_{12}O_7 + Water$

Chemical Name: Sodium Gluconate and Gluconic Acid Solution in Water

Responsible Company: PMP Fermentation Products, Inc  
900 NE Adams St, Peoria, IL 61603

Product Use: Chelating agent

Information Phone No. (309) 637-0400 8 am – 4 pm CST M-F  
Chemtrec Phone No (800) 424-9300

## **2 HAZARDS IDENTIFICATION**

Inhalation: No effects known.

Skin: May cause irritation with prolonged exposure

Eyes: May cause irritation

Ingestion: No effects known

NFPA Ratings: HEALTH **0** FIRE **0** REACTIVITY **0**  
Canadian WHMIS: Not classified

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

| <u>Ingredient</u> | <u>Concentration</u> | <u>CAS No.</u> |
|-------------------|----------------------|----------------|
| Sodium Gluconate  | ~15%                 | 527-07-1       |
| Gluconic Acid     | ~25%                 | 526-95-4       |
| Water             | ~60%                 |                |

## **4 FIRST AID MEASURES**

Inhalation: Remove to fresh air. If adverse effects persist, get medical attention.

Skin: Remove contaminated clothing. Provide convenient safety showers. Wash thoroughly with soap and water. If adverse effects persist, get medical attention.

Eyes: Flush immediately with water or physiological saline for 15 minutes. Get prompt medical attention.

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Ingestion: Drink lots of water. Get medical attention if effects persist.

Other Important Medical or Precautionary Information: None.

### **5 FIRE FIGHTING MEASURES**

Flash Point (Method): n/a Explosion Limits: Upper: n/a Lower: n/a

Extinguishing Media: Water

Special Firefighting Procedures and Hazards: None

### **6 ACCIDENTAL RELEASE MEASURES**

Spills and Leaks:

Small spills can be flushed into normal drainage, into ground with copious amounts of water or taken up with absorbent material. Larger spills should be contained by diking or otherwise held for collection and disposal. Do not allow contact with skin or eyes. Spills tend to be tacky and slippery.

### **7 HANDLING AND STORAGE**

Storage and Handling: Use corrosion-resistant acid containers.

Empty Containers: No special precautions

Other Precautions: None

### **8 EXPOSURE CONTROL/PERSONAL PROTECTION**

|      | <u>TLV</u> | <u>CARCINOGEN</u> |
|------|------------|-------------------|
| None | none       | no                |

Inhalation: Wear approved vapor/mist respirator if exposure is likely.

Skin: Wear protective gloves and clothing as needed. Provide convenient safety showers.

Eyes: Wear splash proof goggles. Provide convenient eyewash stations.

Ingestion: Avoid swallowing. Wear face shield.

Most likely route of entry: Skin, eyes

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### 9 CHEMICAL AND PHYSICAL PROPERTIES

Appearance: Yellow to amber liquid

Odor: slight acetous

pH: 3.2 – 3.60

Water Solubility: Complete

Viscosity, Cp @ 25°C: 32

Boiling Point: > 212° F

Freezing Point: 15°F

Spec Gravity (H<sub>2</sub>O=1): 1.2

Vapor Pressure (mm Hg): n/a

### 10 STABILITY AND REACTIVITY

Stable:  X  Unstable:   Precautions:

Incompatibility:  None

Hazardous Decomposition Products:  n/a

Hazardous Polymerization Occurs:   Does Not Occur:  X

### 11 TOXICOLOGICAL INFORMATION

LD50 (rat) > 2000 (mg/kg bw)

Carcinogenicity Not applicable

Mutagenicity Not applicable

Teratogenicity Not applicable

Reproductive Toxicity Not applicable

### 12 ECOLOGICAL INFORMATION

Predicted toxicity values are:

Fish 96-h LC50 > 1000.0 mg/L

Daphnid 48-h LC50 > 1000.0 mg/L

Green algal 96-h EC50 > 1000.0 mg/L

Fish Chronic Value (ChV) > 100.0 mg/L

Daphnid ChV > 100.0 mg/L

Algal ChV > 100.0 mg/L

Biological Fate: No bioconcentration in aquatic organisms and rapid biodegradation/disappearance in the environment, i.e. 40% in 5 days.

### 13 DISPOSAL CONSIDERATIONS

Waste Disposal: In accordance with applicable regulations for liquid wastes.  
Not a hazardous waste under RCRA criteria.

### 14 TRANSPORT INFORMATION

DOT Shipping Name:  None

DOT:  Not Regulated

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### **15 REGULATORY INFORMATION**

Reportable for SARA Title III, S.313 (Form R): None

Inventory Status:

TSCA      USA      Yes

### **16 OTHER INFORMATION**

**Revision Date:**    4/12/11

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