

according to the Global Harmonized System

Date of issue: 02/04/2013 Version 1.0

### **SECTION 1.Identification**

### **Product identifier**

Product number 820601

Product name Gluconic acid potassium salt for synthesis

### Relevant identified uses of the substance or mixture and uses advised against

Identified uses Chemical for synthesis

# Details of the supplier of the safety data sheet

Company EMD Millipore Corporation | 290 Concord Road, Billerica, MA 01821,

United States of America | SDS Phone Support: +1-978-715-1335 | General Inquiries: +1-978-751-4321 | Monday to Friday, 9:00 AM to

4:00 PM Eastern Time (GMT-5)

e-mail: mm\_sds@merckgroup.com

Emergency telephone 613-996-6666 CANUTEC (Canada)

+1-703-527-3887 CHEMTREC (International)

24 Hours/day; 7 Days/week

### SECTION 2. Hazards identification

### **GHS-Labeling**

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

### Other hazards

None known.

### SECTION 3. Composition/information on ingredients

 $\begin{array}{lll} & & & C_6H_{11}KO_7 \ (Hill) \\ & CAS-No. & & 299-27-4 \\ & Molar \ mass & & 234.24 \ g/mol \end{array}$ 

Remarks WHMIS hazardous composition: No ingredients are hazardous

according to the CPR criteria.

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### **SECTION 4. First aid measures**

### Description of first-aid measures

Inhalation

After inhalation: fresh air.

Skin contact

After skin contact: wash off with plenty of water. Remove contaminated clothing.

Eye contact

After eye contact: rinse out with plenty of water.

Inaestion

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

Never give anything by mouth to an unconscious person.

### Most important symptoms and effects, both acute and delayed

We have no description of any toxic symptoms.

### Indication of any immediate medical attention and special treatment needed

No information available.

### **SECTION 5. Fire-fighting measures**

### Extinguishing media

Suitable extinguishing media

Water, Carbon dioxide (CO2), Foam, Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

### Special hazards arising from the substance or mixture

Combustible.

Development of hazardous combustion gases or vapors possible in the event of fire.

# Advice for firefighters

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

### SECTION 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

# **Environmental precautions**

Do not empty into drains.

### Methods and materials for containment and cleaning up

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Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

# SECTION 7. Handling and storage

### Precautions for safe handling

Observe label precautions.

### Conditions for safe storage, including any incompatibilities

Tightly closed. Dry.

Store at +15°C to +25°C (+59°F to +77°F).

### SECTION 8. Exposure controls/personal protection

### Exposure limit(s)

Contains no substances with occupational exposure limit values.

### **Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

### Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

### Hygiene measures

Change contaminated clothing. Wash hands after working with substance.

### Eye/face protection

Safety glasses

### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

# Respiratory protection

required when dusts are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### SECTION 9. Physical and chemical properties

Physical state powder, finecrystalline

Color colorless

Odor odorless

Odor Threshold not applicable

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Product number Product name	820601 Gluconic acid potassium salt for synthesis	Version 1.0
рН	7.0 - 8.3 at 100 g/l 68 °F (20 °C)	
Melting point	174 - 176 °C	
Boiling point	No information available.	
Flash point	No information available.	
Evaporation rate	No information available.	
Flammability (solid, gas)	No information available.	
Lower explosion limit	No information available.	
Upper explosion limit	No information available.	
Vapor pressure	No information available.	
Relative vapor density	No information available.	
Relative density	No information available.	
Water solubility	ca.590 g/l at 68 °F (20 °C)	
Partition coefficient: n- octanol/water	log Pow: -5.99 (calculated) (Lit.) Bioaccumulation is not expected (log Pow <1).	
Autoignition temperature	No information available.	
Decomposition temperature	356 °F (180 °C)	
Viscosity, dynamic	No information available.	
Explosive properties	Not classified as explosive.	
Ignition temperature	> 392 °F (> 200 °C)	

# SECTION 10. Stability and reactivity

### Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

600 kg/m<sup>3</sup>

# Chemical stability

Bulk density

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The product is chemically stable under standard ambient conditions (room temperature) .

### Possibility of hazardous reactions

Violent reactions possible with:

Strong oxidizing agents

### Conditions to avoid

Strong heating (decomposition).

### Incompatible materials

no information available

### Hazardous decomposition products

no information available

### **SECTION 11. Toxicological information**

### Information on toxicological effects

Likely route of exposure

Eye contact, Skin contact, Ingestion

Specific target organ systemic toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ systemic toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

### Carcinogenicity

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

ACGIH No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

### **Further information**

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Handle in accordance with good industrial hygiene and safety practice.

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### **SECTION 12. Ecological information**

### **Ecotoxicity**

No information available.

# Persistence and degradability

Biodegradability

90 %; 2 d

(External MSDS)

Readily biodegradable.

Biochemical Oxygen Demand (BOD)

572 mg/g (5 d)

(External MSDS)

Chemical Oxygen Demand (COD)

752 mg/g

(External MSDS)

### Bioaccumulative potential

Partition coefficient: n-octanol/water

log Pow: -5.99

(calculated)

(Lit.) Bioaccumulation is not expected (log Pow <1).

# Mobility in soil

No information available.

### Other adverse effects

### **SECTION 13. Disposal considerations**

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

# **SECTION 14. Transport information**

### Land transport (DOT)

Not classified as dangerous in the meaning of transport regulations.

# Air transport (IATA)

Not classified as dangerous in the meaning of transport regulations.

### Sea transport (IMDG)

Not classified as dangerous in the meaning of transport regulations.

### **SECTION 15. Regulatory information**

**United States of America** 

Canada

WHMIS Classification

Not controlled under WHIMS (Canada).

# MATERIAL SAFETY DATA SHEET according to the Global Harmonized System

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This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

### **Notification status**

TSCA: On TSCA Inventory

DSL: All components of this product are on the Canadian DSL.

### **SECTION 16. Other information**

### Training advice

Provide adequate information, instruction and training for operators.

# Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

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The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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