



Section 1. Product and Company Identification

**Product Name** Potassium Gluconate  
**CAS Number** 299-27-4

**Parchem - fine & specialty chemicals**  
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**New Rochelle, NY 10801**  
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Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

**GHS Classification:** Not a hazardous substance or mixture according to GHS

**Hazards Not Otherwise Classified:** May form combustible dust concentrations in air (during processing).

Section 3. Composition / Information on Ingredients

**Common Name** Potassium Gluconate  
**Formula**  $C_6H_{11}O_7K$   
**CAS Number** 299-27-4

Section 4. First Aid Measures

**First Aid Procedures**

**Protection of first-aiders:** No hazards which require special first aid measures.

**If inhaled:** If breathed in, move person into fresh air.

**In case of skin contact:** Immediately flush skin with large amounts of water.

**In case of eye contact:** If easy to do, remove contact lens, if worn. Immediately flush eye(s) with plenty of water.

**If swallowed:** Clean mouth with water and drink afterwards plenty of water.

**Notes to physician**

**Symptoms:** No information available.

**Risks:** None known.

**Treatment:** Treat symptomatically.

Section 5. Firefighting Measures

**Fire fighting**

**Suitable extinguishing media:** Water spray. Dry powder. Foam Carbon dioxide (CO<sub>2</sub>).



**Further information:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes.

**Protective equipment and precautions for firefighters**

**Specific hazards during firefighting:** Do not use a solid water stream as it may scatter and spread fire. Exposure to decomposition products may be a hazard to health. Hazardous decomposition products formed under fire conditions.

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary. Wear fire resistant or flame retardant clothing.

Section 6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation, especially in confined areas.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so.

Section 7. Handling and Storage

**Handling**

**Advice on safe handling:** Risk of dust explosion. Avoid creating dust. May form combustible dust concentrations in air (during processing). Do not breathe dust.

Avoid contact with skin and eyes. Wear personal protective equipment.

**Advice on protection against fire and explosion:** Normal measures for preventive fire protection.

**Dust explosion class:** St1

**Storage**

**Requirements for storage areas and containers:** Keep containers tightly closed in a dry, cool and well ventilated place. Take measures to prevent the buildup of electrostatic charge.

**Further information on storage conditions:** Do not store at temperatures above 30 °C / 86 °F.

**Advice on common storage:** Never allow product to get in contact with water during storage.

**Other data:** No decomposition if stored and applied as directed.

Section 8. Exposure Controls / Personal Protection

**Components with workplace control parameters:** Contains no substances with occupational exposure limit values.

**Engineering measures:** Provide adequate ventilation.

**Personal protective equipment**

**Respiratory protection:** In the case of dust or aerosol formation use respirator with an approved filter. Use NIOSH approved respiratory protection.

**Hand protection Remarks:** Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

**Eye protection:** Safety glasses

**Skin and body protection:** Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas.

#### Section 9. Physical and Chemical Properties

**Appearance:** powder

**Color:** white

**Odor:** odorless

**pH:** 7.0 - 8.3, 10 %

**Melting point/range:** 180 °C

**Flash point:** does not flash

**Density:** 1.74 g/cm<sup>3</sup>

**Bulk density:** 800 kg/m<sup>3</sup>

#### Solubility(ies)

**Water solubility:** soluble (20 °C)

**Molecular weight:** 234.25 g/mol

#### Section 10. Stability and Reactivity

**Reactivity:** No decomposition if stored and applied as directed.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** None known.

**Conditions to avoid:** Avoid dust formation.

**Incompatible materials:** No data available

**Hazardous decomposition products:** Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

#### Section 11. Toxicological Information

#### Acute toxicity

#### Components

#### Potassium gluconate

**Acute oral toxicity:** LD50 Rat, male and female: 6.06 mg/kg; Method OECD Test Guideline 401

**Acute dermal toxicity:** LD50 Rat, male and female: > 2,000 mg/kg; Method OECD Test Guideline 402



**Skin corrosion/irritation:** No data available

**Serious eye damage/eye irritation**

**Components**

**Potassium gluconate:** Species- Rabbit, Result- No eye irritation, Method- OECD Test Guideline 405, Remarks- No human information is available.

**Respiratory or skin sensitization:** No data available

**Germ cell mutagenicity**

**Components**

**Potassium gluconate**

**Germ cell mutagenicity Assessment:** In vivo tests did not show mutagenic effects

**Carcinogenicity**

**Components**

**Potassium gluconate:** This information is not available.

**Reproductive toxicity**

**Components**

**Potassium gluconate**

**Effects on fetal development:** Species- Rat, Exposure time- 6 - 15 d 594 mg/kg

**STOT - single exposure:** No data available

**STOT - repeated exposure:** No data available

**Repeated dose toxicity**

**Components**

**Potassium gluconate:** Rat- Application Route Oral, Exposure time 6 Months, No human information is available.

**Aspiration toxicity:** No data available

**Potential Health Effects**

**Aggravated Medical Condition:** None known.

**Symptoms of Overexposure:** No information available.

**Experience with human exposure**

**Inhalation:** Respiratory system, No information available.

**Skin contact:** Skin, No information available.

**Eye contact:** Eyes, No information available.

**Ingestion:** Digestive organs, No information available.

**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.



**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.

**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.

**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.

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

## Section 12. Ecological Information

### Product

**Toxicity to fish:** No adverse effect has been observed in acute toxicity tests.

### Components

#### Potassium gluconate

**Toxicity to fish:** LC50 (*Oryzias latipes* (Orange-red killifish)) > 100 mg/l. Exposure time 96 h. Test Method semi-static test. Method OECD Test Guideline 203

**Toxicity to daphnia and other aquatic invertebrates:** EC50 (*Daphnia magna* (Water flea)) > 1,000 mg/l. Exposure time 48 h. Test Method static test. Method OECD Test Guideline 202

**Toxicity to algae:** EC0 (*Desmodesmus subspicatus* (green algae)) ≤ 100 mg/l. Exposure time 72 h. Test Type static test. Method OECD Test Guideline 201

### Persistence and degradability

**Biodegradability:** Biodegradation 90 %. Exposure time 2 d. Readily biodegradable

**Biochemical Oxygen Demand (BOD):** 572 mg/g

**Chemical Oxygen Demand (COD):** 752 mg/g

### Bioaccumulative potential

#### Components

#### Potassium gluconate

**Bioaccumulation:** Bioaccumulation is unlikely.

**Mobility in soil:** No data available

### Other adverse effects

**Additional ecological information:** The product should not be allowed to enter drains, water courses or the soil.



Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

**DOT:** Not dangerous goods

**IATA:** Not dangerous goods

**IMDG:** Not dangerous goods

Section 15. Regulatory Information

**SARA 311/312 Hazards:** No SARA Hazards

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

**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.

**California Prop 65:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**The components of this product are reported in the following inventories**

**REACH:** On the inventory, or in compliance with the inventory

**EINECS:** On the inventory, or in compliance with the inventory

**TSCA:** On TSCA Inventory

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

**Inventories:** AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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