SECTION 1: Identification

1.1. Identification

Product form: Substance
Substance name: POTASSIUM GLUCONATE
Chemical name: Potassium Gluconate Anhydrous
CAS No: 299-27-4
Product code: 2654, 2655, 2656
Formula: C6H11KO7

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture: Food Additives in Nutrients
Food industry: supplement
Pharmaceuticals

1.3. Details of the supplier of the safety data sheet

Jost Chemical Co.
8150 Lackland Rd.
Saint Louis, Missouri 63114
T 314-428-4300 - F 314-428-4366
justin.kuehnel@jostchemical.com - www.jostchemical.com

1.4. Emergency telephone number

Emergency number: CHEMTREC 800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification
Not classified

2.2. Label elements

GHS-US labeling
No labeling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substance

Substance type: Mono-constituent
Full text of H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: Move the affected person away from the contaminated area and into the fresh air. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact: Immediately remove contaminated clothing or footwear. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact: Immediately rinse with water for a prolonged period while holding the eyelids wide open. Consult an ophthalmologist if irritation persists.
First-aid measures after ingestion: Drink plenty of water. Ingestion of large quantities: immediately to hospital. Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media


5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions: Do not dispose of fire-fighting water in the environment. Cool down the containers exposed to heat with a water spray.

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel


Emergency procedures: Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment: Collect all waste in suitable and labeled containers and dispose according to local legislation.

Methods for cleaning up: Recover mechanically the product. Collect spillage. This material and its container must be disposed of in a safe way, and as per local legislation. Wash down leftovers with plenty of water.

Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid dust formation. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Does not require any specific or particular technical measures.

Storage conditions: Keep container tightly closed. Protect from moisture. Store in a well-ventilated place. Keep cool.

Incompatible materials: Strong oxidizers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>POTASSIUM GLUCONATE (299-27-4)</th>
<th>DNEL</th>
<th>DNEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>59 mg/m³ (Long-term - systemic effects, inhalation; workers)</td>
<td></td>
</tr>
<tr>
<td>PNEC</td>
<td>0.1 mg/l (Aqua, freshwater)</td>
<td></td>
</tr>
</tbody>
</table>
8.2 Exposure controls

Appropriate engineering controls: Extraction to remove dust at its source. Ensure good ventilation of the work station.

Materials for protective clothing: Wear suitable protective clothing, gloves and eye/face protection.
Hand protection: Impermeable protective gloves.
Eye protection: Chemical goggles or safety glasses. Safety glasses.
Skin and body protection: Wear suitable protective clothing.
Respiratory protection: Dust production: dust mask with filter type P1.
Environmental exposure controls: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Solid
Appearance: Granules
Color: White Off-white
Odor: Odourless
Odor threshold: No data available
pH: 7 - 8.3
pH solution: 100 g/l 20°C
Melting point: No data available
Freezing point: Not applicable
Boiling point: No data available
Flash point: Not applicable
Relative evaporation rate (butyl acetate=1): No data available
Flammability (solid, gas): No data available
Explosion limits: Not applicable
Explosive properties: No data available
Oxidizing properties: No data available
Vapor pressure: 0.835 hPa (25°C; OECD 104 method)
Relative density: Not applicable
Relative vapor density at 20 °C: No data available
Molecular mass: 234.246 g/mol
Solubility: No data available
Log Pow: -3.18
Auto-ignition temperature: Not applicable
Decomposition temperature: 180 °C
Viscosity: No data available
Viscosity, kinematic: Not applicable
Viscosity, dynamic: No data available

9.2 Other information

No additional information available

SECTION 10: Stability and reactivity

10.1 Reactivity

No additional information available

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials
Oxidizing agent.

10.6. Hazardous decomposition products
Carbon monoxide. Carbon dioxide. Potassium oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

- **Acute toxicity**: Not classified
  (Based on available data, the classification criteria are not met)

- **Skin corrosion/irritation**: Not classified
  (Based on available data, the classification criteria are not met)
  pH: 7 - 8.3

- **Serious eye damage/irritation**: Not classified
  (Based on available data, the classification criteria are not met)
  pH: 7 - 8.3

- **Respiratory or skin sensitization**: Not classified
  (Lack of data)

- **Germ cell mutagenicity**: Not classified
  (Lack of data)

- **Carcinogenicity**: Not classified
  (Lack of data)

- **Reproductive toxicity**: Not classified
  (Lack of data)

- **Specific target organ toxicity (single exposure)**: Not classified
  (Lack of data)

- **Specific target organ toxicity (repeated exposure)**: Not classified
  (Lack of data)

- **Aspiration hazard**: Not classified
  (Not applicable)


SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
Effect on the global warming: No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.
SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

TDG

TDG Proper Shipping Name: Not regulated for transport

Transport by sea

Proper Shipping Name (IMDG): Not regulated for transport

Air transport

Proper Shipping Name (IATA): Not regulated for transport

SECTION 15: Regulatory information

15.1. US Federal regulations

POTASSIUM GLUCONATE (299-27-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Indication of changes: This sheet was updated (refer to the date at the top of this page).

Revision date: 10/12/2015

NFPA health hazard: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard: 0 - Materials that will not burn.

NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS III Rating

Health: 0 Minimal Hazard - No significant risk to health

Flammability: 0 Minimal Hazard - Materials that will not burn

Physical: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)
This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.