# Safety Data Sheet

**Potassium Lactate**  
Revision Date: 13/10/05  
Ref. SD0150/2005-03

<table>
<thead>
<tr>
<th># Product name</th>
<th>Supplier</th>
</tr>
</thead>
</table>
| PURASAL® P     | PURAC America, Inc.  
111 Barclay Blvd.  
Lincolnshire, IL 60069  
USA |
| PURASAL® HiPure P |  |
| PURASAL® HiPure P/F |  |
| PURASAL® HiPure P/F3 |  |
| PURASAL® HiPure P Plus |  |

## 1. Identification of the Substance / Preparation and the Company / Undertaking

### Use of the Substance
Food additive, Specialty chemical

### Supplier
- **PURAC America, Inc.**  
111 Barclay Blvd.  
Lincolnshire, IL 60069  
USA

#### Telephone
(847) 634 6330

#### Fax
(847) 634 1992

#### Emergency Telephone
(800) 424 9300

### Supplier
- **PURAC biochem**  
Arkelsedijk 46  
The Netherlands  
Spain

#### Telephone
++31 183 695695

#### Fax
++31 183 695604

#### Emergency Telephone
++31 183 695695

### Supplier
- **PURAC bioquimica**  
Gran Vial 19-25  
E 08160 Montmelo Barcelona  
Spain

#### Telephone
++34 93 568 6300

#### Fax
++34 93 568 3955

#### Emergency Telephone
++34 93 568 6300 (Ext. 222)

## 2. Composition / Information on Ingredients

### Chemical nature of the substance
Potassium-S-(−)-2-hydroxy propanoate aqueous solution

### Synonyms
Potassium L-2-hydroxy propanoate  
Lactic Acid Potassium salt

### Components

<table>
<thead>
<tr>
<th>Component</th>
<th>EC-No.</th>
<th>CAS-No.</th>
<th>Weight, %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Lactate</td>
<td>288-752-8</td>
<td>996-31-6</td>
<td>60-78 balance</td>
</tr>
<tr>
<td>Water</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Hazard classification
The product contains no substances which at their given concentration are considered to be hazardous to health.

## 3. Hazards Identification

### Most important hazards
May cause eye irritation with susceptible persons.

## 4. First Aid Measures

### General advice
Show this safety data sheet to the doctor in attendance.

### Inhalation
Move to fresh air.

### Skin contact
Wash off with water.

### Eye contact
Rinse thoroughly with plenty of water, also under the eyelids.

### Ingestion
Drink water.

### Major effects of exposure
May cause eye irritation with susceptible persons

---

For further information:

http://www.purac.com/
Potassium Lactate

Revision Date: 13/10/05
Ref. SD0150/2005-03

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water, carbon dioxide (CO2), foam.
Extinguishing media which must not be used for safety reasons: None.
Specific hazards: Burning produces irritant fumes.
Special protective equipment for firefighters: Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with eyes.
Environmental precautions: No special environmental precautions required.
Methods for cleaning up: Flush with water.

7. HANDLING AND STORAGE

Handling:
Technical measures/Precautions: No special technical protective measures required.
Safe handling advice: Handle in accordance with good industrial hygiene and safety practice.

Storage:
Technical measures/Storage conditions: Keep tightly closed.
Packaging material: All steel and plastic packages.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure: Insure adequate ventilation, especially in confined areas.
Control parameters: None.
Personal protection equipment:
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.
## Potassium Lactate

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form</strong></td>
<td>aqueous solution</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>light yellow</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>slight / none</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>6.5 – 9.0</td>
</tr>
<tr>
<td><strong>Molecular Weight</strong></td>
<td>129</td>
</tr>
<tr>
<td><strong>Boiling point</strong></td>
<td>239°F (115°C) (60% solution)</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>not applicable</td>
</tr>
<tr>
<td><strong>Explosion limits</strong></td>
<td>not applicable</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>1320 - 1350 kg/m³ @ 20°C (60 % solution)</td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
<td>Water solubility: completely soluble</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>24 - 26 mPa.s @ 68°F(20°C) (60% solution)</td>
</tr>
</tbody>
</table>

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1.9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Color</strong></td>
<td>light yellow</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>slight / none</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>6.5 – 9.0</td>
</tr>
<tr>
<td><strong>Molecular Weight</strong></td>
<td>129</td>
</tr>
<tr>
<td><strong>Boiling point</strong></td>
<td>239°F (115°C) (60% solution)</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>not applicable</td>
</tr>
<tr>
<td><strong>Explosion limits</strong></td>
<td>not applicable</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>1320 - 1350 kg/m³ @ 20°C (60 % solution)</td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
<td>Water solubility: completely soluble</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>24 - 26 mPa.s @ 68°F(20°C) (60% solution)</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

#### 10.1. Stability

- **Stability**: Stable at normal conditions.
- **Conditions to avoid**: Temperatures above 392°F(200°C).
- **Materials to avoid**: None.
- **Hazardous decomposition products**: Carbon oxides.

### 11. TOXICOLOGICAL INFORMATION

#### 11.1. Acute toxicity

- **Health injuries** are not known or expected under normal use.
- **May cause eye irritation with susceptible persons**.
- **Based on tests with L-lactic acid and its salts, there is no evidence to suggest carcinogenic nor mutagenic properties from lactic acid itself nor from the lactate portion of its metal salts**.

#### 11.2. Local effects

- **Specific effects**
  - Mobility: Completely soluble in water.
  - Persistence / degradability: Product is a salt of lactic acid which is readily biodegradable.
  - Bioaccumulation: Unlikely.
  - Ecotoxicity: Ecological injuries are not known or expected under normal use.

**For further information:**

http://www.purac.com/
**SAFETY DATA SHEET**

**Potassium Lactate**

**Revision Date:** 13/10/05  
**Ref. SD0150/2005-03**

### 13. DISPOSAL CONSIDERATIONS

- **Waste from residues / unused products:** Can be disposed as waste water, when in compliance with local regulations. Can be landfilled or incinerated, when in compliance with local regulations.
- **Contaminated packaging:** Clean container with water. Empty containers should be taken for local recycling, recovery or waste disposal.

### 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

### 15. REGULATORY INFORMATION

**US Regulations**
- TSCA Inventory Status: Y
- SARA III: N
- California Proposition 65: N
- Carcinogenic status: OSHA: N, NTP: N, IARC: N
- FDA: GRAS

**EU Status**
- According to National equivalent of EC-Dir. 67/548, as amended, the product does not need to be labeled.
- EU Food additive E326

### 16. OTHER INFORMATION

**NFPA Ratings (Scale 0-4):** 0 (health) - 0 (flammability) - 0 (reactivity)

**HMIS Rating:**
- 0 (health) - 0 (flammability) - 0 (reactivity) - A (protective equipment)

Further information on the safety assessment of Potassium Lactate and lactic acid can be obtained in a CFTA Report of June 6th 1997.

Additional data on the calculated ecotoxicity of lactic acid and its salts and esters can be obtained in a report entitled 'The ecotoxicity and biodegradability of lactic acid, alkyl lactate esters and lactic acid salts' by Bowmer et al. (Reference: Chemosphere 37: 1317-1333 (1998))

This information only concerns the above mentioned product and is not valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

# Indicates updated section.

---

For further information:

http://www.purac.com/