

## Potassium Lactate

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

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING

<b># Product name</b>	PURASAL <sup>®</sup> P PURASAL <sup>®</sup> HiPure P PURASAL <sup>®</sup> HiPure P/F PURASAL <sup>®</sup> HiPure P/F3 PURASAL <sup>®</sup> HiPure P Plus	
<b>Use of the Substance</b>	Food additive, Specialty chemical	
<b>Supplier</b>	PURAC America, Inc. 111 Barclay Blvd. Lincolnshire, IL 60069 USA	
<b>Telephone</b>	(847) 634 6330	
<b>Fax</b>	(847) 634 1992	
<b>Emergency Telephone</b>	<b>(800) 424 9300</b>	
<b>Supplier</b>	PURAC biochem Arkelsedijk 46 NL-4206 AC Gorinchem The Netherlands	PURAC bioquimica Gran Vial 19-25 E 08160 Montmelo Barcelona Spain
<b>Telephone</b>	++31 183 695695	++34 93 568 6300
<b>Fax</b>	++31 183 695604	++34 93 568 3955
<b>Emergency Telephone</b>	++31 183 695695	++34 93 568 6300 (Ext. 222)

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<b>Chemical nature of the substance</b>	Potassium-S(-)-2-hydroxy propanoate aqueous solution		
<b>Synonyms</b>	Potassium L-2-hydroxy propanoate Lactic Acid Potassium salt		
<b>Components</b>	<b>EC-No.</b>	<b>CAS-No.</b>	<b>Weight, %</b>
Potassium Lactate	288-752-8	996-31-6	60-78
Water			balance
<b>Hazard classification</b>	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

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Move to fresh air.
<b>Skin contact</b>	Wash off with water.
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids.
<b>Ingestion</b>	Drink water.
<b>Major effects of exposure</b>	May cause eye irritation with susceptible persons

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### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media** Water, carbon dioxide (CO<sub>2</sub>), foam.  
**Extinguishing media which must not be used for safety reasons** None.  
**Specific hazards** Burning produces irritant fumes.  
**Special protective equipment for firefighters** None.  
**Specific methods** 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** No special protective equipment required.  
**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	aqueous solution
<b>Color</b>	light yellow
<b>Odor</b>	slight / none
<b>pH</b>	6.5 – 9.0
<b>Molecular Weight</b>	129
<b>Boiling point/range</b>	239°F (115°C) (60% solution) 277°F (136°C) (78% solution)
<b>Decomposition temperature</b>	>392°F(200°C)
<b>Autoignition temperature</b>	not applicable
<b>Flash point</b>	not applicable
<b>Explosion limits</b>	not applicable
<b>Density</b>	1320 - 1350kg/m <sup>3</sup> @ 20°C (60 % solution) 1440 - 1460kg/m <sup>3</sup> @ 20°C (78 % solution)
<b>Solubility</b>	Water solubility: completely soluble
<b>Viscosity</b>	24 - 26 mPa.s @ 68°F(20°C) (60% solution) 120 - 160 mPa.s @ 68°F(20°C) (78% solution)

### 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable at normal conditions.
<b>Conditions to avoid</b>	Temperatures above 392°F(200°C).
<b>Materials to avoid</b>	None.
<b>Hazardous decomposition products</b>	Carbon oxides.

### 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	Health injuries are not known or expected under normal use.
<b>Local effects</b>	May cause eye irritation with susceptible persons.
<b>Specific effects</b>	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.

### 12. ECOLOGICAL INFORMATION

<b>Mobility</b>	Completely soluble in water.
<b>Persistence / degradability</b>	Product is a salt of lactic acid which is readily biodegradable.
<b>Bioaccumulation</b>	Unlikely.
<b>Ecotoxicity</b>	Ecological injuries are not known or expected under normal use. (No effect on Daphnia @ 10g/l.)

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# SAFETY DATA SHEET

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### 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))

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