



SAFETY DATA SHEET

Potassium Lactate

Revision Date: 13/10/05
Ref. SD0150/2005-031. IDENTIFICATION OF THE
SUBSTANCE /
PREPARATION
AND THE
COMPANY /
UNDERTAKING

# Product name	PURASAL® P PURASAL® HiPure P PURASAL® HiPure P/F PURASAL® HiPure P/F3 PURASAL® HiPure P Plus	
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 NL-4206 AC Gorinchem The Netherlands	PURAC bioquimica Gran Vial 19-25 E 08160 Montmelo Barcelona Spain
Telephone	++31 183 695695	++34 93 568 6300
Fax	++31 183 695604	++34 93 568 3955
Emergency Telephone	++31 183 695695	++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	EC-No.	CAS-No.	Weight, %
Potassium Lactate	288-752-8	996-31-6	60-78
Water			balance
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.
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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

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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 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

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

10. STABILITY AND REACTIVITY

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

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

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. (No effect on Daphnia @ 10g/l.)

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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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Indicates updated section.

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