

SAFETY DATA SHEET

Mixture of:
Sodium-L-Lactate and Sodium Diacetate

Revision Date: 15/02/2007
Ref. SD0151/2007-01

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

Product name PURASAL® *Opti.Form*® SD 3 and 4
 PURASAL® *Opti.Form*® SD S-L
 PURASAL® Fresh 8
 PURASAL® XTend S
 PURASAL® *Opti.Form*® SD 4 Ultra

Use of the Substance Food additive, Specialty chemical

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical nature of the preparation Formulation based on Sodium-L-Lactate and Sodium Diacetate.

Synonyms **Sodium Lactate:**
 Sodium (S)- Lactate
 Sodium (S)-2-hydroxypropanoate
 (S)-2-hydroxy propanoic acid, sodium salt

Sodium Diacetate:
 Sodium Hydrogen Diacetate

Components	EC-No.	CAS-No.	Weight, %
Sodium-L-Lactate	212-762-3	867-56-1	50.5-58.5
# Sodium Diacetate	204-814-9	126-96-5	3.7-8.3
Water			balance

3. HAZARDS IDENTIFICATION

Most important hazards Health injuries are not known or expected under normal use.

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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.

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

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 Use personal protective equipment.
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.
 Avoid long storage times.
Packaging material Steel and plastic packages.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure	Insure adequate ventilation, especially in confined areas.
Exposure Limit Values	None.
Personal protection equipment	Wear safety glasses .
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	aqueous solution
Color	light yellow
Odor	slight/vinegar-like
# pH, direct	5.5-8 @ 77 °F (25 °C)
Boiling point/range	no data available
Decomposition temperature	>392°F(200°C)
Autoignition temperature	not applicable
Flash point	not applicable
Explosion limits	not applicable
Density	1300-1330 kg/m ³ @ 68°F (20°C)
Solubility	Water solubility: completely soluble
Viscosity	no data available

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.
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. Neither the sodium salts of acetic acid nor Sodium lactate are listed as carcinogenic under OSHA, IARC or NTP.

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12. ECOLOGICAL INFORMATION

Mobility Completely soluble.
Persistence / degradability Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.
Bioaccumulation Unlikely.
Ecotoxicity Ecological injuries are not known or expected under normal use.

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 Sodium Lactate
Y Sodium Diacetate
SARA III: N
California Proposition 65: N
Carcinogenic status: OSHA: N. NTP: N, IARC: N
FDA GRAS Sodium Lactate
GRAS Sodium Diacetate

EU Status This preparation is not classified as dangerous according to EC-Directive 1999/45.

EU Food additive Sodium Lactate E325
Sodium Diacetate E262

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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 sodium 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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