

Sodium-L- Lactate, PURASAL®S

**REVISION DATE 07/03/00** REF. SD0130/us04

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

Sodium-L-Lactate, PURASAL® S **Product name** 

3001-3008, 3501-3608 Product code

Supplier PURAC America, Inc. PBR sínteses

> 111 Barclay Blvd. Praça Pio X, 15, 9° andar Lincolnshire, IL 60069 CEP 20.040-020 Rio de Janiero

USA Brazil

Telephone (847) 634 6330 ++55 21 203 2191 (847) 634 1992 ++55 21 263 9288 Fax (800) 424 9300 ++55 21 263 7292 **Emergency Telephone:** 

Supplier PURAC biochem Purac bioquimica

Arkelsedijk 46 Gran Vial 19-25 NL-4206 AC Gorinchem E 08160 Montmelo Barcelona

The Netherlands Spain

Telephone ++31 (0) 183 695695 ++34 93 572 1016 Fax ++31 (0) 183 695604 ++34 93 568 3955

++31 (0) 183 695695 ++34 93 568 6300 (Ext 222) **Emergency Telephone** 

2. COMPOSITION / **INFORMATION ON INGREDIENTS** 

Chemical name of the substance Sodium-L-(-)-2-hydroxy propionate

aqueous solution.

**Synonyms** Sodium Lactate,

Sodium-L(-)-2-hydroxy propionate CAS-No. 867-56-1 **EC-No** 212-762-3

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.

Wash off with plenty of water. Skin contact

Eye contact Rinse thoroughly with plenty of water, also

under the eyelids.

Ingestion Drink plenty of water.

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

Copyright © 2000 PURAC. All rights reserved. No part of this publication may be copied, downloaded, reproduced, stored in a retrieval system or transmitted in any form by any means, electronic, mechanical, photocopied, recorded or otherwise, without permission of the publisher. No representation or warranty is made as to the truth or accuracy of any data, information or opinions contained herein or as to their suitability for any purpose, condition or application. None of the data, information or opinions contained herein may be relied upon for any purpose or reason. PURAC disclaims any liability, damages, losses or other consequences suffered or information or opinions contained herein. In addition, nothing contained herein shall be construed as a recommendation to use any products in conflict with existing patents covering any material or its use.

For further information:

PURAC sales office:

PURAC America Lincolnshire, IL / USA Phone +1 847 634 6330 Fax +1 847 634 1992 e-mail pam@purac.com

US-PURASAL S / 03/01 Page 1 of 5



Sodium-L- Lactate, PURASAL®S

REVISION DATE 07/03/00 REF. SD0130/us04

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Extinguishing media which must not be used for safety reasons

Specific hazards

Special protective equipment

for firefighters Specific methods Water, carbon dioxide (CO2), foam.

None.

Burning produces irritant fumes.

None

Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid contact with eyes.

Use personal protective equipment.

Environmental precautions Methods for cleaning up

Flush with water.

7. HANDLING AND STORAGE

Handling

Technical measures/Precautions

Safe handling advice

No special technical protective measures required.

No special environmental precautions required.

Handle in accordance with good industrial

hygiene and safety practice.

Storage

Technical measures/ Storage conditions Packaging material Keep tightly closed in a dry place. Avoid long storage times. 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

Respiratory protection Not applicable.

Hand protection Not applicable.

Eye protection Safety glasses.

Skin and body protection Not applicable.

Hygiene measures Handle in accordance with good industrial hygiene

and safety practice.

Copyright © 2000 PURAC. All rights reserved. No part of this publication may be copied, downloaded, reproduced, stored in a retrieval system or transmitted in any form by any means, electronic, mechanical, photocopied, recorded or otherwise, without permission of the publisher. No representation or warranty is made as to the truth or accuracy of any data, information or opinions contained herein or as to their suitability for any purpose, condition or application. None of the data, information or opinions contained herein may be relied upon for any purpose or reason. PURAC disclaims any liability, damages, losses or other consequences suffered or information or opinions contained herein. In addition, nothing contained herein shall be construed as a recommendation to use any products in conflict with existing patents covering any material or its use.

For further information:

PURAC sales office:

PURAC America Lincolnshire, IL / USA Phone +1 847 634 6330 Fax +1 847 634 1992 e-mail pam@purac.com

US-PURASAL S / 03/01 Page 2 of 5



Sodium-L- Lactate, PURASAL®S

REVISION DATE 07/03/00 REF. SD0130/us04

9. PHYSICAL AND CHEMICAL PROPERTIES

Form aqueous solution
Color light yellow
Odor slight / none

**pH** 6.5 - 8.5 (10 - 60% aqueous solution) @ 77°F (25°C)

Molecular Weight not applicable

Boiling point/range 221°F (105°C) (50% solution), 230°F (110°C) (60% solution)

Decomposition temperature>392°F(200°C)Autoignition temperaturenot applicableFlash pointnot applicableExplosion limitsnot applicable

**Density** 1320 - 1340kg/m<sup>3</sup> @ 68°F (20°C) (60 % solution)

**Solubility** Water solubility: completely soluble **Viscosity** 80 - 160 mPa.s @ 68°F (20°C)

10. STABILITY AND REACTIVITY

**Stability** Stable at normal conditions.

Materials to avoid None.

Hazardous decomposition Carbo

**Products** 

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity Health injuries are not known or expected under

normal use.

LD50/intraperitoneal/rat = 2000 mg/kg

LD50/oral/rat = 2000 mg/kg.

**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.

**Further information** Natural product in the body.

Copyright © 2000 PURAC. All rights reserved. No part of this publication may be copied, downloaded, reproduced, stored in a retrieval system or transmitted in any form by any means, electronic, mechanical, photocopied, recorded or otherwise, without permission of the publisher. No representation or warranty is made as to the truth or accuracy of any data, information or opinions contained herein or as to their suitability for any purpose, condition or application. None of the data, information or opinions contained herein may be relied upon for any purpose or reason. PURAC disclaims any liability, damages, losses or other consequences suffered or information or opinions contained herein. In addition, nothing contained herein shall be construed as a recommendation to use any products in conflict with existing patents covering any material or its use.

For further information:

PURAC sales office:

PURAC America Lincolnshire, IL / USA Phone +1 847 634 6330 Fax +1 847 634 1992 e-mail pam@purac.com

US-PURASAL S / 03/01 Page 3 of 5



Sodium-L- Lactate, PURASAL®S

REVISION DATE 07/03/00

REF. SD0130/us04

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.)

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)

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 (Sodium Lactate E325)

Copyright © 2000 PURAC. All rights reserved. No part of this publication may be copied, downloaded, reproduced, stored in a retrieval system or transmitted in any form by any means, electronic, mechanical, photocopied, recorded or otherwise, without permission of the publisher. No representation or warranty is made as to the truth or accuracy of any data, information or opinions contained herein or as to their suitability for any purpose, condition or application. None of the data, information or opinions contained herein may be relied upon for any purpose or reason. PURAC disclaims any liability, damages, losses or other consequences suffered or information or opinions contained herein. In addition, nothing contained herein shall be construed as a recommendation to use any products in conflict with existing patents covering any material or its use.

For further information:

PURAC sales office:

PURAC America Lincolnshire, IL / USA Phone +1 847 634 6330 Fax +1 847 634 1992 e-mail pam@purac.com

US-PURASAL S / 03/01 Page 4 of 5



Sodium-L- Lactate, PURASAL®S

REVISION DATE 07/03/00 REF. SD0130/us04

**16. OTHER INFORMATION** 

**CAS-No.** 72-17-3 (general)

**EC-No** 200-772-0 (general)

NFPA Ratings (Scale 0-4)
HMIS Rating

0(health)-0(flammability)-0(reactivity)

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.

Copyright © 2000 PURAC. All rights reserved. No part of this publication may be copied, downloaded, reproduced, stored in a retrieval system or transmitted in any form by any means, electronic, mechanical, photocopied, recorded or otherwise, without permission of the publisher. No representation or warranty is made as to the truth or accuracy of any data, information or opinions contained herein or as to their suitability for any purpose, condition or application. None of the data, information or opinions contained herein may be relied upon for any purpose or reason. PURAC disclaims any liability, damages, losses or other consequences suffered or incurred in connection with the use of the data, information or opinions contained herein. In addition, nothing contained herein shall be construed as a recommendation to use any products in conflict with existing patents covering any material or its use.

For further information:

PURAC sales office:

PURAC America Lincolnshire, IL / USA Phone +1 847 634 6330 Fax +1 847 634 1992 e-mail pam@purac.com

US-PURASAL S / 03/01 Page 5 of 5