Sodium Lactate

SECTION 1 :: PRODUCT IDENTIFICATION

Product Name: Sodium Lactate
INCI Name: Sodium Lactate

SECTION 2 :: INGREDIENTS

Chemical name of the substance Sodium-L-(-)-2-hydroxy propionate aqueous solution.
Synonyms
CAS-No. 867-56-1
EC-No 212-762-3

SECTION 3 :: HAZARDS IDENTIFICATION

Most important hazards
May cause eye irritation with susceptible persons.

SECTION 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 plenty of water.
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.

SECTION 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

SECTION 6 :: ACCIDENTAL RELEASE MEASURES

Personal precautions
Avoid contact with eyes.
Environmental precautions
Use personal protective equipment.
Methods for cleaning up
Flush with water.

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## SECTION 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/
Keep tightly closed in a dry place
Storage conditions  
Avoid long storage times.
Packaging material  
Steel and plastic packages

## SECTION 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.

## SECTION 9 :: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form aqueous solution</td>
<td>Color light yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>slight / none</td>
</tr>
<tr>
<td>pH (aqueous solution)</td>
<td>6.5 - 8.5 (10 - 60% aqueous solution) @ 77 deg F (25 deg C)</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>not applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>&gt;392 deg F (200 deg C)</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>not applicable</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>not applicable</td>
</tr>
<tr>
<td>Density</td>
<td>1320 - 1340kg/m3 @ 68 deg F (20 deg C) (60 % solution)</td>
</tr>
<tr>
<td>Solubility</td>
<td>Water solubility: completely soluble</td>
</tr>
<tr>
<td>Viscosity</td>
<td>80 - 160 mPa s @ 68 deg F (20 deg C)</td>
</tr>
</tbody>
</table>

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SECTION 10 :: STABILITY AND REACTIVITY
Stability: Stable at normal conditions.
Materials to avoid: None
Hazardous decomposition Products: Carbon oxides

SECTION 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.

SECTION 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.)

SECTION 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.

SECTION 14 :: TRANSPORT INFORMATION
Not classified as dangerous in the meaning of transport regulations
Sodium Lactate

SECTION 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
Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 99/45/EC

EU Food additive (Sodium Lactate E325)

SECTION 16 :: OTHER INFORMATION

CAS-No. 72-17-3 (general) EC-No 200-772-0 (general)
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.

Disclaimer

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