



SODIUM LACTATE SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Name: Sodium Lactate
Uses: To be used as a humectant, antioxidant or flavouring agent in the food industries, especially in meat industry. Also used as humectant, antioxidant synergist, or bodying agent in other industries, like cosmetic and pharmaceutical industry.
Chemical Family: No data available
Chemical Formula: C₃H₅NaO₃
Chemical Name: Sodium lactate, aqueous solution
CAS Number.: 867-56-1

Contact Details Of the Supplier of this Safety Data Sheet

Supplier: Heirloom Body Care Pty Ltd
Address: Unit 9, 28 Coombes Drive Penrith NSW 2750 Australia
Telephone: 02 4722 2123
Fax: 02 4722 2904

Emergency Contact Details

Poisons Information Centre 13 11 26

SECTION 2: HAZARD IDENTIFICATION

Poisons Schedule (Aust) Not Scheduled

Globally Harmonised System

Hazard Classification NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Signal Word None

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Safe Work Australia

National Guide for classifying Hazardous Chemicals under the Model WHS Regulations

Hazard Classification NOT hazardous according to the criteria of Safe Work Australia under Model WHS Regulations

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Sodium lactate	C ₃ H ₅ NaO ₃	72-17-3	58-62%
Water	H ₂ O	7732-18-5	Balance %



SECTION 4: FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	IF SWALLOWED: Rinse mouth, then drink plenty of water. Do not induce vomiting. Get medical advice/attention if you feel unwell.
Eye	IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice/attention
Skin	IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs, get medical advice/attention.
Inhaled	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention.
Advice to Doctor	Treat symptomatically. Show this safety data sheet to the doctor in attendance.
Medical Conditions	No information available
Aggravated by Exposure	

SECTION 5: FIRE FIGHTING MEASURES

General Measures	If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out. Dike fire control water for later disposal
Flammability Conditions	Non-combustible, however, after evaporation of the water component of the material, the residual material can burn if ignited.
Extinguishing Media	If material is involved in a fire, use dry chemical, Carbon dioxide (CO ₂). foam or water spray for extinction.
Fire and Explosion Hazard	Containers may explode when heated.
Hazardous Products of Combustion	Fire may produce irritating and/or toxic gases, including Carbon oxides, Sodium oxides
Special Fire Fighting Instructions	Contain runoff from fire control or dilution water - Runoff may cause pollution.
Personal Protective Equipment	Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters protective clothing will only provide limited protection.
Flash Point	No Data Available
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	No Data Available
Hazchem Code	No Data Available

SECTION 6: ACCIDENTAL RELEASE MEASURES

General Response Procedure	Ensure adequate ventilation. Do not touch or walk through spilled material Avoid breathing mis/aerosols and contact with eyes, skin and clothing.
Clean Up Procedures	Pick up with sand or other non-combustible absorbent material and place into containers for later disposal (see SECTION 13).
Containment	Stop leak if you can do it without risk – Prevent entry into waterways,sewers, basements or confined areas
Decontamination	Flush with water
Environmental Precautionary Measures	Prevent entry into drains and waterways
Evacuation Criteria	Spill or leak area should be isolated immediately. Keep unauthorised personnel away.
Personal Precautionary	Use appropriate personal protective equipment (see SECTION 8)



SECTION 7: HANDLING AND STORAGE

Handling	Safety showers and eye wash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing mist/aerosols and contact with eyes, skin and clothing. Do not ingest. Use appropriate personal protective equipment as required (see SECTION 8).
Storage	Store in a cool, dry and well-ventilated place out of direct sunlight. Keep container tightly closed. Keep away from heat and ignition sources - no smoking. Keep away from incompatible material. (see SECTION 10)
Container	Keep in the original container.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

General	No specific exposure standards are available for this product.
Exposure Limits	No Data Available
Biological Limits	No information available.
Engineering Measures	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Personal Protection Equipment	-Respiratory protection: In case of mist/aerosols formation wear respiratory protection. Recommended: Particulate/mist respirator. (refer to AS/NZS 1715) 1716) -Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses or chemical goggles. -Hand protection: Handle with gloves Recommended: Impervious gloves e.g. Nitrile rubber -Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Overalls, safety shoes.
Special Hazards Precautions	No information available.
Work Hygienic Practices	Do not eat, drink or smoke when using this product. Wash hands after working with this substance. Take off contaminated clothing and wash it before reuse

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state @20°C	Liquid
Appearance	Liquid
Colour	Light yellow
Odour	Slight/none
pH	6.0-8.0 (10% aqueous solution)
Vapour pressure	No data available
Relative vapour density	No data available
Boiling point	110 °C (60% solution)
Melting Point	No data available
Freezing point	No data available
Solubility	Miscible with water
Specific Gravity	1.320 - 1.340g/ml (60% solution)
Flash point	No data available
Autoignition temperature	No data available
Evaporation rate	No data available
Bulk Density	No data available



Corrosion Rate	No data available
Decomposition temperature	> 200 °C
Density	No data available
Specific Heat	No data available
Molecular Weight	No data available
Net Propellant Weight	No data available
Octanol Water Coefficient	No data available
Particle Size	No data available
Partition Coefficient	No data available
Saturated Vapour Concentration	No data available
Vapour Temperature	No data available
Viscosity	80-160 mPa.s (@20°C)
Volatile Percent	No data available
VOC Volume	No data available
Additional Characteristics	No information available
Potential for Dust Explosion	Not applicable
Fast or Intensely Burning Characteristics	No information available
Flame Propagation or Burning Rate of Solid Materials	No information available
Non-Flammables That Could Contribute	No information available
Unusual Hazard to a Fire	
Properties That May Initiate or Contribute to fire Intensity	Non -combustible, however after evaporation of the water component, residual material may burn if ignited
Reactions That Release Gases or Vapours	Fire/decomposition may produce irritating and/or toxic gases including Carbon oxides/Sodium oxides
Release of Invisible Flammable Vapours and Gases	No information available

SECTION 10: STABILITY AND REACTIVITY

General Information	No information available
Chemical Stability	Stable at room temperature, in closed containers under normal storage and handling conditions.
Conditions to Avoid	Avoid excessive heat..
Materials to Avoid	Incompatible/reactive with strong oxidants.
Hazardous Decomposition Products	Fire/decomposition may produce irritating and/or toxic gases, including Carbon oxides, Sodium oxides
Hazardous Polymerisation	Hazardous polymerisation does not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

General Information	Information of toxicological effects: - Acute toxicity: By way of read-across from Lactic acid and Sodium chloride, sodium lactate is evaluated to be acutely non-toxic via any of the standard routes of administration. - Skin corrosion/irritation: Not irritating [read-across from the structurally equivalent substances] - Serious eye damage/irritation: Not irritating [read-across from the structurally equivalent substances] - Respiratory/skin sensitization: Based on the available data, classification of Sodium lactate for skin sensitisation is not warranted. - Germ cell mutagenicity: Based on the available data, Sodium lactate can be considered to be non-genotoxic. - Carcinogenicity: Based on tests with L-lactic acid and its salts, there is no evidence to suggest carcinogenic or mutagenic properties from lactic acid itself nor from the lactate portion of its metal salts.
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- Reproductive toxicity: Sodium lactate is considered not to exert any adverse effects on fertility or developmental toxicity.
- STOT (single exposure): No data available
- STOT (repeated exposure): Based on the available data, classification of Sodium lactate is not warranted.
- Aspiration toxicity: No data available

Information on likely routes of exposure:

- Ingestion: May cause irritation of the digestive tract
 - Eye contact: May cause eye irritation.
 - Skin contact: May cause skin irritation
 - Inhalation: May cause respiratory tract irritation
- Chronic Effects: No information available

Acute

Ingestion

Acute toxicity (Oral):

- LD50, Rat: >2,000 mg/kg bw [Read-across: Sodium chloride and lactic acid (both practically non-toxic)].

Carcinogen Category

None

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Ecological injuries are not known or expected under normal use
(No effect of Daphnia @ 10g/l)

Persistence Degradability

Product is a salt of lactic acid, which is readily biodegradable

Mobility

Completely soluble

Environmental Fate

Prevent entry into drains and waterways

Bioaccumulation Potential

Unlikely

Environmental Impact

No Data Available

SECTION 13: DISPOSAL CONSIDERATIONS

General Information

Waste from residues/unused product can be disposed as waste water, when in compliance with local regulations, or can be landfilled or incinerated, when in compliance with local regulations.

Special Precautions
for Land Fill

Clean container with water, Empty containers should be taken for local recycling, recovery or waste disposal

SECTION 14: TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name Sodium Lactate

Class No Data Available

Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available

Hazchem No Data Available

Pack Group No Data Available



Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Sea Transport IMDG Code

Proper Shipping Name	Sodium Lactate
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
EMS	No Data Available
Marine Pollutant	No
Comments	NON-DANGEROUS GOODS: Not regulated for SEA transport.

Air Transport IATA DGR

Proper Shipping Name	Sodium Lactate
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for AIR transport.

National Transport Commission (Australia)
Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification
NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

SECTION 15: REGULATORY INFORMATION

General Information	No Data Available
Poisons Schedule (Aust)	Not Scheduled

National/Regional Inventories

Australia (AICS)	Listed
Canada (DSL)	Listed
Canada (NDSL)	Not Determined
China (IECSC)	Liste
Europe (EINECS)	200-772-0
Europe (REACH)	Not Determined



Japan (ENCS/METI)
Korea (KECI)
Malaysia (EHS Register)
New Zealand (NZIoC)
Philippines (PICCS)
Taiwan (NCSR)
USA (TSCA)
Mexico (INSQ)

Listed
Listed
Not Determined
Listed
Listed
Listed
Listed
Not Determined

Revision Date 20 August 2021

SECTION 16: OTHER INFORMATION

Revision Date 17th June 2024

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet