



## MATERIAL SAFETY DATA SHEET

REF: 91/155/EEC AND AMENDMENTS WITH RESPECTIVE NATIONAL IMPLEMENTATIONS

### SODIUM LACTATE

#### 1.0 SUBSTANCE IDENTIFICATION

- 1.1 Commercial product name: Sodium Lactate
- 1.2 Chemical characterisation: Propanoic acid, 2-hydroxy-monosodium salt
- 1.3 Formula:  $C_3H_5O_3Na$  in  $H_2O$
- 1.4 Molecular weight: 118
- 1.5 CAS No: 72-17-3
- 1.6 EINECS No.: 200-772-0
- 1.7 **FOR USE IN FOOD (E 270)**
- 1.8 Manufactured by: Archer Daniels Midland Company, 4666 Faries Parkway,  
Decatur, Illinois 62526, U.S.A.
- 1.9 Supplied by: ADM Australia Pty Ltd, PO Box 281, Suite 1003, Level 10,  
1 Newland Street, Bondi Junction, NSW 2022
- 1.10 **Australian Emergency Telephone Number: 0417 285396**

#### 2.0 COMPOSITION

- 2.1 66% w/w solution of sodium lactate in water.

#### 3.0 HAZARDS IDENTIFICATION

- 3.1 Sodium Lactate is a mild eye irritant
- 3.2 Exposure to mist may cause coughing, irritation to the mucous membranes and eyes.

#### 4.0 FIRST AID MEASURES

- 4.1 In each instance below, seek medical attention.
- 4.2 Skin or eye contact -flush with water for at least 15 minutes while removing contaminated clothing.
- 4.3 If inhaled - remove person to fresh air.
- 4.4 If ingested -do not induce vomiting, have victim drink water or milk. Never give anything by mouth if victim is unconscious .

## 5.0 FIRE FIGHTING MEASURES

- 5.1 Extinguishing media - water fog, carbon dioxide, dry chemicals or foam.
- 5.2 Water may be used to keep fire-exposed containers cool until fire is out.
- 5.3 Wear self-contained breathing apparatus with full face piece operated in the positive pressure demand mode when fighting fires.
- 5.4 There are no known unusual fire or explosion hazards.
- 5.5 The product is not considered flammable but the residue may burn in the presence of a strong ignition source after the water has evaporated.

<b>6.0 ACCIDENTAL RELEASE MEASURES</b>
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- 6.1 After spillage/leakage, contain spill to prevent discharge into environment. Cover spill with sodium bicarbonate or soda ash. Mix and add water if necessary to form a slurry. Scoop slurry into a suitable container and neutralize with 6M ammonium hydroxide. Observe all labelled safeguards until the container is cleaned, reconditioned or destroyed.

## 7.0 HANDLING AND STORAGE

- 7.1 Store in a cool, dry, well-ventilated area.
- 7.2 Industrial hygiene - protect container from physical damage and keep tightly closed. Avoid breathing vapours. Use only with adequate ventilation. Do not allow contact with skin, eyes or clothing. Wash thoroughly after handling.

## 8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Respiratory protection: Acid fume respirator
- 8.2 Hand protection: Impervious gloves
- 8.3 Eye protection: Safety glasses and face shield
- 8.4 Other: Skin protection required

## 9.0 PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Appearance: Colourless/slightly yellow syrupy liquid
- 9.2 Odour: None
- 9.3 pH: 7.0
- 9.4 Boiling point (at 14-15mm Hg): 112°C
- 9.5 Specific gravity (25°C): 1.32
- 9.6 Solubility in water (25 °C): 100%

## 10.0 STABILITY AND REACTIVITY

- 10.1 Shelf life : Sodium Lactate is chemically stable for many years if stored under cool conditions. Re-test prior to use is recommended after three (3) years.

## 11.0 TOXICOLOGICAL INFORMATION

- 11.1 LD<sub>50</sub> (rat): Not Available
- 11.2 Dermal LD<sub>50</sub> (rat): Not Available
- 11.3 Rabbit eye irritation: Not Available
- 11.4 Rabbit skin irritation: Not Available

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## **12.0 ECOLOGICAL INFORMATION**

12.1 Sodium Lactate is fully biodegradable.

## **13.0 DISPOSAL CONSIDERATIONS**

13.1 Flush neutralised waste down drain with large amounts of water, **depending upon Local regulations.**

## **14.0 TRANSPORT INFORMATION**

14.1 Not regulated

## **15.0 REGULATORY INFORMATION**

15.1 Sodium Lactate is an EU permitted Food Additive (E270) and may be used *quantum satis*, unless otherwise stated. The US Food and Drug Administration classifies lactic acid as a GRAS (Generally Recognised As Safe) food ingredient. 15.2 Under the Classification and Labelling of Dangerous Substances Regulations according to Directive 67/548 EEC and Amendments: C - Corrosive R34 - Causes burns S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S36 - Wear suitable protective clothing

## **16.0 ADDITIONAL INFORMATION**

16.1 See Product Data Sheet.

16.2 This Safety Data Sheet is based upon a limited review of ADM files and standard Toxicological handbooks.