



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:

- 1.9 Supplied by: Saffire Blue Inc, 1444 Bell Mill Road
Tillsonburg, ON N4G4G9 Canada

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.

6.0 ACCIDENTAL RELEASE MEASURES
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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 LD₅₀ (rat): Not Available
- 11.2 Dermal LD₅₀ (rat): Not Available
- 11.3 Rabbit eye irritation: Not Available
- 11.4 Rabbit skin irritation: Not Available

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.