

MSDS

(SODIUM) ACETATE BUFFERS

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Catalog Number: 48, 56, 59, 63, 70, AX-1021, AX-1077, AX-914, AX-921, S-717	
Product Identity: (SODIUM) ACETATE BUFFERS	
Manufacturer's Name: RICCA CHEMICAL COMPANY LLC	Emergency Contact(24 hr) -- CHEMTREC® Domestic: 800-424-9300 International: 703-527-3887
CAGE Code: 0V553	
Address: 448 West Fork Dr Arlington, TX 76012	Telephone Number For Information: 817-461-5601
Date Prepared: 10/14/99	Revision: 10 Last Revised: 06/15/2007 Date Printed: 06/15/2007 4:15:14 pm

Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Sodium Acetate Trihydrate	6131-90-4	1 - 30	Not Available	Not Available
			Not Available	Not Available
Acetic Acid	64-19-7	0.5 - 7	10 ppm	10 ppm
			25 mg/m3	25 mg/m3
Water, Deionized	7732-18-5	Balance	Not Available	Not Available
			Not Available	Not Available

Section 3: Hazard Identification

Emergency Overview: May cause mild irritation to the skin, eyes, and upper respiratory tract. Ingestion of large doses may produce abdominal pain, nausea and vomiting. Does not present any significant health hazards.

Target Organs: eyes, skin, respiratory system, teeth.

Eye Contact: May cause slight irritation.

Inhalation: May cause irritation of the mucous membranes of the nose and throat as well as mild irritation of the upper respiratory tract.

Skin Contact: May cause slight irritation.

Ingestion: May cause irritation of the digestive tract with diarrhea and general discomfort.

Chronic Effects/Carcinogenicity: None

IARC - No.

NTP - No.

OSHA - No.

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Reproductive Information: Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Acetic Acid.

Teratology (Birth Defect) Information: Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Acetic Acid. Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Sodium Acetate Trihydrate.

Section 4: First Aid Measures - In all cases, seek qualified evaluation.

Eye Contact: Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Skin Contact: Wash areas of contact with soap and water for at least 15 minutes. Call a physician if irritation develops.

Ingestion: Dilute with water or milk. Call a physician if necessary.

Section 5: Fire Fighting Measures

Flash Point: Not Available.

Method Used: Not Available.

LFL: Not Available.

UFL: Not Available.

Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Fire & Explosion Hazards: Not considered to be a fire or explosion hazard.

Fire Fighting Instructions: Use normal procedures/instructions.

Fire Fighting Equipment: Use protective clothing and breathing equipment appropriate for the surrounding fire.

Section 6: Accidental Release Measures

Absorb with suitable material (paper towels, etc.) and dispose of in accordance with local regulations. Ventilate, if necessary, site of spillage well to evaporate remaining liquid and disperse vapor.

Section 7: Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

Safety Storage Code: General

Section 8: Exposure Control/Personal Protection

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

Respiratory Protection: Normal room ventilation is adequate.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

Section 9: Physical and Chemical Properties

Appearance: Clear, colorless liquid

Odor: slight acetic acid odor

Solubility in Water: Infinite

Specific Gravity: Approximately 1.0 - 1.1

pH: 4 - 6

Boiling Point(°C): Approximately 100

Melting Point(°C): Approximately 0

Vapor Pressure: Not Applicable.

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatibility: Strong oxidizers (such as Chlorine, Fluorine, Bromine), and oxidizing materials.

Hazardous Decomposition Products: Emits fumes of acetic acid upon heating and on contact with strong acids.

Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

LD50, Oral, Rat: 3530 mg/kg (Sodium Acetate); 3310 mg/kg (Acetic Acid), details of toxic effects not reported other than lethal dose value.

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Section 12. Ecological Information

Ecotoxicological Information: No information found.

Chemical Fate Information: No information found.

Section 13. Disposal Considerations

Dilute with water, neutralize with weak sodium hydroxide solution, then flush to sewer if local regulations allow. If not allowed, save for recovery or recycling in an approved waste disposal facility. Always dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

Part Numbers:

This product is not regulated.

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA Status: These items meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

TSCA Status: All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

Section 302 Extremely Hazardous Substances: Not Applicable.

Section 311/312 Hazardous Categories: No

Section 313 Toxic Chemicals: Not Applicable.

California: None Reported.

Pennsylvania: Acetic Acid is listed as an Environmental Hazard on the state's Hazardous Substances List.

RCRA Status: D002

CERCLA Reportable Quantity: Acetic Acid - 5,000 pounds.

WHMIS: Not Applicable.

Section 16. Other Information

NFPA Ratings:

Health: 1

Flammability: 0

Reactivity: 0

Special Notice Key: None

HMIS Ratings:

Health: 1

Flammability: 0

Reactivity: 0

Protective Equipment: B (Protective Eyewear, Gloves)

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- Rev 1, 3-27-2000: (Section 1) Revised emergency telephone number to CHEMTREC® 800-424-9300.
Rev 2, 10-09-2001: Reformatted to electronic data format.
Rev 3, 06-26-2002: (Section 1) added catalog number 56, revised title from (Sodium) Acetate Buffer, Purified; (Section 9) added pH range.
Rev 4, 08-24-2005: (Section 1) added catalog number 48 and Red Bird catalog number AX-921; (Section 2) revised concentration ranges for Sodium Acetate and Acetic Acid from 13 - 14 and 5 - 7 respectively; (Section 9) revised pH range from 4.5 - 5.5.
Rev 5, 10-05-2005: (Section 1) added Red Bird catalog number AX-914; (Section 2) revised concentration ranges for Sodium Acetate from 13 - 16.
Rev 6, 12-15-2005: (Section 1) added Red Bird catalog number S-717; (Section 2) revised concentration of Acetic Acid from 1 - 7%.
Rev 7, 01-10-2006: (section 1) added Red Bird catalog number AX-1021; (Section 2) revised concentration of Sodium Acetate Trihydrate from 8 - 16%; (Section 15) added WHMIS information.
Rev 8, 06-12-2006: (Section 1) added catalog number 60.2; (Section 9) revised specific gravity from approximately 1; (Section 15) revised WHMIS information.
Rev 9, 12-13-2006: (Section 1) added catalog numbers 59 and 63; (Section 2) revised concentration range of Sodium Acetate from 5 - 20%.
Rev 10, 06-15-2007: (Section 1) added Red Bird catalog number AX-1077; (Section 2) revised concentration range of Sodium Acetate from 1 - 20%.

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.