

Chem Alert Report

Manufacturer's Material Safety Data Sheet

Product Name **AMPEROMETRIC BUFFER PH 4.0****Ingredient**ACETIC ACID
WATER
SODIUM ACETATE TRIHYDRATE**Conc.**30 - 60%
30 - 60%
10 - 30%**CAS No.**64-19-7
7732-18-5
6131-90-4**Shipping** **CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA**
ACETIC ACID SOLUTION, more than 10 % but not more than 80 % acid, by mass**Synonyms** BUFFER PH 4.0 AMPEROMETRIC , PH 4.0 AMPEROMETRIC BUFFER.**Appearance** CLEAR COLOURLESS LIQUID**Odour** STRONG PUNGENT VINEGAR ODOUR**Use(s)** LABORATORY REAGENT, BUFFER SOLUTION, BUFFER, ANALYTICAL REAGENT.**Supplier** FRONINE LABORATORY SUPPLIES Ph: 02 9627 3600 Emerg. Ph: 13 11 26**Stock No.** 269.**Poison Sched** 5
Pkg Group III**Hazchem 2R**
EPG 8A1**UN No.** 2790**D.G Class** 8
Sub/Tert Risk None Allocated**HEALTH HAZARDS****Health Hazard Summary** Corrosive. Use safe work practices to avoid eye or skin contact and vapour inhalation. Chronic high level exposure to acetic acid fume may result in darkening of the skin, erosion of the tooth enamel and damage to the respiratory tract.**Eye** Corrosive - severe irritant. Exposure may result in pain, redness, corneal burns and ulceration with possible permanent damage with prolonged contact.**Inhalation** Corrosive. Over exposure may result in mucous membrane irritation of nose and throat, coughing and bronchitis. At high levels; ulceration of the respiratory tract, lung damage, chemical pneumonitis and pulmonary oedema.**Skin** Corrosive - severe irritant. Contact may result in rash, dermatitis, blistering and severe burns. Effects (eg. burning sensation) may be delayed.**Ingestion** Corrosive. Ingestion may result in ulceration and burns to the mouth and throat, nausea, vomiting, abdominal pain and diarrhoea.**PRECAUTIONS****Flammability** Non flammable. May evolve toxic gases (acetic acid, hydrocarbons, carbon oxides) when heated to decomposition. Vapour may form explosive mixtures with air at high levels.**Reactivity** Incompatible with oxidising agents (eg. hypochlorites, peroxides), alkalis, acetaldehyde, phosphorus trichloride, potassium t-butoxide, heat and ignition sources.**Ventilation** Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical explosion proof extraction ventilation is recommended.**PERSONAL PROTECTIVE EQUIPMENT****PPE** Wear coveralls, splash-proof goggles and nitrile or neoprene gloves. When using large quantities or where heavy contamination is likely, wear a PVC apron and PVC boots. Where an inhalation risk exists, wear a Type A (Organic vapour) Respirator. At high vapour levels, wear an Air-line respirator.Colour
Rating
AMBER

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FIRST AID

- Eye** Hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre, or for at least 15 minutes.
- Inhalation** Leave area of exposure. If symptoms develop, seek urgent medical attention. If assisting a victim, avoid becoming a casualty, wear a Type A (Organic vapour) respirator (or Air-line respirator in poorly ventilated areas). If victim not breathing, apply artificial respiration and seek urgent medical attention.
- Skin** Remove contaminated clothing and gently flush affected areas with water. Product may penetrate skin and cause severe deep burns. Seek immediate medical attention. Launder clothing before reuse.
- Ingestion** For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor. If swallowed, do not induce vomiting.

SAFE HANDLING

- Storage** Store tightly sealed in cool, dry, well ventilated area, removed from oxidising agents, acetaldehyde, alkalis, potassium t-butoxide, phosphorus trichloride or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Large storage areas should be bunded and have fire and ventilation systems.
- Waste Disposal** Wearing protective equipment detailed above, and ensuring any ignition sources are eliminated, absorb with sodium carbonate - sodium bicarbonate, collect and dispose of to an approved landfill site. Contact the manufacturer for additional information.
- Transport** Class 8 Corrosive. Do not transport with chemicals of class; 1 (Explosives), 4.3 (Dangerous When Wet), 5.1 (Oxidising agents), 5.2 (Organic peroxides), 6 (Toxics - where the Toxic is a cyanide and the Corrosive is an acid), 7 (Radioactives), 8 (where products are acid/alkali) and foodstuffs.

EMERGENCY

- Spillage** If spilt (bulk), contact emergency services if appropriate, clear area of all unprotected personnel and ventilate area. Wear splash-proof goggles, neoprene/nitrile gloves, a Full-face Air-line respirator, coveralls and boots. Eliminate ignition sources. Absorb with sodium carbonate or similar and place in labelled containers for treatment and disposal.
- Environment** Acetic acid is proposed to be added to the National Pollutant Inventory in 1999 - Threshold Category 1, use of 10 tonnes/year. Acetic acid occurs naturally in the environment and is readily metabolised by living organisms. It biodegrades readily from soil, water and the atmosphere. Acetic acid does not bioaccumulate or contaminate the food chain.
- Fire and Explosion** Non flammable. Evacuate area and contact emergency services. Toxic gases (hydrocarbons, carbon oxides, acetic acid) may be evolved when heated. Remain upwind and notify those downwind of hazard. Wear full protective equipment (see spill above) including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
- Extinguishing** Non flammable.

PHYSICAL AND CHEMICAL PROPERTIES

Flammability: NON FLAMMABLE
Boiling Point: NOT AVAILABLE
Exposure Standard: 10 ppm Acetic acid
pH: 4.0
Specific Gravity: NOT AVAILABLE
Vapour Pressure: NOT AVAILABLE
Lower Explosion Limit: NOT RELEVANT

Flash Point: NOT RELEVANT
Melting Point: NOT AVAILABLE
Evaporation Rate: NOT AVAILABLE
% Volatiles: NOT AVAILABLE
Solubility (water): SOLUBLE
Upper Explosion Limit: NOT RELEVANT