Section I  Product Identification and Use

BDH Inc.                              Emergency Telephone No.: 416-201-6383 (24 HR.)
350 Evans Avenue                      Information Telephone No.: 416-255-8521 (0830-1630)
Toronto                               Ontario

Product Name: Buffer pH 1.68

Product Code(s): 34170-278, VW8810, 34170-182

Chemical Name/Other Name: Buffer pH 1.68

Chemical Family: Organic Salt Solution

TDG Shipping Name/UN: Not regulated

TDG Classification/Packing group: Not regulated

Use: Laboratory reagent, industrial processes

Section II Hazardous Ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium tetraoxalate</td>
<td>6100-20-5</td>
<td>1.26 w/v</td>
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Section III Physical Data

Appearance and Odour: Clear liquid, odourless

Odour Threshold: Not available

Specific Gravity: Not available

Vapour Pressure: Not available

Vapour Density: Not available

Evaporation Rate: Not applicable

Boiling Point: Approx. 100°F/8°C

Freezing Point: Approx. 0°HoC

pH: 1.68

Coefficient of water/oil distribution: Not available

Section IV Fire or Explosion Hazard

Conditions of Flammability: Noncombustible.
Extinguishing Media: Foam, dry powder or carbon dioxide. Firefighters should wear self-contained breathing apparatus.

UEL: Not applicable

Autoignition Temperature: Not applicable

Hazardous Combustion Products: COx

Explosion data - sensitivity to mechanical impact: No
- sensitivity to static discharge: No

Section V Reactivity Data

Conditions of instability: Normally stable

Conditions of reactivity: Normally stable

Hazardous decomposition products: COx

Section VI Toxicological Properties / Health Hazard Data

-skin contact: May irritate
-skin absorption: No information available
-eye contact: May irritate
-inhalation: May be harmful
-ingestion: May be harmful

LC50: Not available

Exposure Limits: TLV : 1 mg/m^3 (oxalic acid)

Effects of Acute Exposure: No information available

Effects of Chronic Exposure: No information available

Irritancy: No experimental information available

Sensitization to Product: No information available

Carcinogenicity: No information available

Reproductive Toxicity: No information available

Teratogenicity: No information available

Mutagenicity: No information available

Toxicologically Synergistic Products: None found

Section VII First aid measures
Skin: Flush the contact area with lukewarm running water for at least 15 minutes. Remove contaminated clothing, taking care not to spread the chemical. If contamination is extensive, remove clothing under running water. Discard or decontaminate clothing under running water. Discard or decontaminate clothing before use. Unless contact has been slight, seek medical attention. Seek medical attention if irritation persists.

Eye: Flush the contaminated eye(s) for at least 15 minutes with lukewarm running water, holding the eyelids open. Take care not to rinse contaminated water into the non-affected eye. Always seek medical attention for accidents.

Inhalation: Take proper precautions to ensure your own safety before attempting rescue. Remove source of contamination or move victim to fresh air. If breathing has stopped, trained personnel should begin artificial respiration, or if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Seek medical attention.

Ingestion: Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. Do not induce vomiting. Have victim drink 200-400 ml of water to dilute. If breathing has stopped, trained personnel should begin artificial respiration, or if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Seek medical attention.

Section VIII Preventive Measures

Engineering Controls: Engineering control methods to reduce hazardous exposures are preferred. Methods include mechanical ventilation (dilution and local exhaust), process or personnel enclosure, control of process conditions, and process modification. Administrative controls and personal protective equipment may also be required.

-gloves: Rubber or plastic
-protective clothing: Plastic apron, sleeves and boots as appropriate
-respiratory protection: Dust mask or fumehood as appropriate
-eye protection: Chemical safety goggles

Storage Requirements: Store in suitable labelled containers. Keep containers tightly closed when not in use and when empty. Protect from damage. Store in a cool, dry, well-ventilated area, out of direct sunlight.

Handling Procedures and Equipment: Avoid generating dust. Follow routine safe practices. Use LFP before dealing with spills. Take necessary protective measures, inform others to keep at a safe distance and, for flammable materials, shut off all possible sources of ignition. Transfer carefully into container and arrange removal by disposal company. Wash site of spillage thoroughly with water and detergent.

Disposal: Follow all federal, provincial and local regulations for disposal. Use only licensed disposal and waste hauling companies. Disposal of small amounts of spilled material may be handled as described under "Leak or Spill Cleanup". Large spills must be dealt with separately and must be handled by qualified disposal companies.

Special Shipping Information: Follow all TDG regulations and see classification in Section I.
Section IX Preparation Information

Prepared by: Technical Affairs Department, BDH Inc.,

Toronto, Ontario

Date: Sept 5, 1997

Revision Date: Sept 17, 1997, Jan 26, 2000; May 10, 2000

WHMIS Classification: This product is not controlled by WHMIS.

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