



## POOLPRIDE PH BUFFER

Chemwatch Material Safety Data Sheet  
For Domestic Use Only.  
Issue Date: 9-Oct-2008  
XC9477SD

CHEMWATCH 10448  
Version No:7  
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### Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### PRODUCT NAME

POOLPRIDE PH BUFFER

#### STATEMENT OF HAZARDOUS NATURE

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation.

#### OTHER NAMES

Na-H-CO<sub>3</sub>, C-H-O<sub>3</sub>.Na, "baking soda", "bicarbonate of soda", "carbonic acid, monosodium salt", "monosodium carbonate", "sodium acid carbonate", "soda mint", "Food Additive 500", Deltrex, "Swift Brybicarb", "David Craig Sodium Bicarbonate"

#### PRODUCT USE

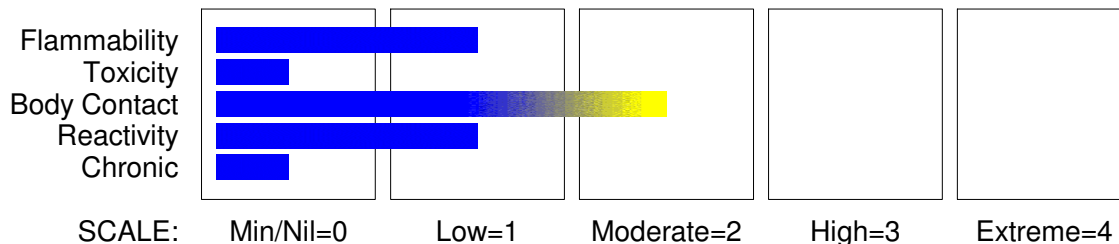
Manufacture of many sodium salts; source of carbon dioxide; component of dry powder fire extinguishers, and also Soda-Acid extinguishers. Food additive 500; ingredient of baking powder, effervescent salines and beverages. A mild alkali, used medicinally in low doses in antacid mixes. Also available as an intravenous infusion. Available as Technical, Pure, Food and BP grades.

#### SUPPLIER

Company: Damar Industries Limited  
Address:  
Eastgate Business Park  
800 Te Ngae Road  
Rotorua  
Telephone: +64 7 345 6007  
Emergency Tel: 0800 2436 2255  
Emergency Tel: 0800 CHEMCALL  
Fax: +64 7 345 6019

### Section 2 - HAZARDS IDENTIFICATION

#### CHEMWATCH HAZARD RATINGS



#### GHS Classification

Acute Toxicity (Oral) Category 5  
Eye Irritation Category 2B  
Skin Corrosion/Irritation Category 3

#### EMERGENCY OVERVIEW

#### HAZARD

##### WARNING

Determined by Chemwatch using GHS/HSNO criteria:

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Section 2 - HAZARDS IDENTIFICATION

6.1E 6.3B 6.4A  
May be harmful if swallowed  
Causes mild skin irritation  
Causes eye irritation

## PRECAUTIONARY STATEMENTS

### Prevention

Wash thoroughly after handling.

### Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Call a POISON CENTER or doctor/physician if you feel unwell.

If skin irritation occurs: Get medical advice/ attention.

If eye irritation persists: Get medical advice/attention.

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS RN	%
sodium bicarbonate	144-55-8	>99

## Section 4 - FIRST AID MEASURES

NEW ZEALAND POISONS INFORMATION CENTRE 0800 POISON (0800 764 766)  
NZ EMERGENCY SERVICES: 111

### SWALLOWED

- Immediately give a glass of water.
- First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

### EYE

- » If this product comes in contact with the eyes:
- Wash out immediately with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

### SKIN

- » If skin contact occurs:
- Immediately remove all contaminated clothing, including footwear.
- Flush skin and hair with running water (and soap if available).

### INHALED

- If fumes or combustion products are inhaled remove from contaminated area.
- Other measures are usually unnecessary.

### NOTES TO PHYSICIAN

- » Treat symptomatically.

## Section 5 - FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

### FIRE FIGHTING

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves for fire only.

### FIRE/EXPLOSION HAZARD

- Solid which exhibits difficult combustion or is difficult to ignite.
- Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fine

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Section 5 - FIRE FIGHTING MEASURES

grinding of the solid are a particular hazard; accumulations of fine dust may burn rapidly and fiercely if ignited. Combustion products include: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), other pyrolysis products typical of burning organic material.  
May emit corrosive fumes.  
Decomposes on heating to produce water vapour and sodium carbonate.

## FIRE INCOMPATIBILITY

- Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.

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## Section 6 - ACCIDENTAL RELEASE MEASURES

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### EMERGENCY PROCEDURES

#### MINOR SPILLS

- Clean up all spills immediately.
- Avoid breathing dust and contact with skin and eyes.

#### MAJOR SPILLS

- » Moderate hazard.
- CAUTION: Advise personnel in area.
- Alert Emergency Services and tell them location and nature of hazard.  
**Personal Protective Equipment advice is contained in Section 8 of the MSDS.**

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## Section 7 - HANDLING AND STORAGE

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### PROCEDURE FOR HANDLING

- Avoid all personal contact, including inhalation.
  - Wear protective clothing when risk of exposure occurs.
- Empty containers may contain residual dust which has the potential to accumulate following settling. Such dusts may explode in the presence of an appropriate ignition source.

### SUITABLE CONTAINER

- Lined metal can, lined metal pail/ can.
- Plastic pail.
- Glass container is suitable for laboratory quantities.

### STORAGE INCOMPATIBILITY

- Avoid strong acids.
  - Avoid reaction with oxidising agents.
- Segregate from monoammonium phosphate, acids and strong oxidisers. Reacts rapidly with acidic materials, generates carbon dioxide gas, which may pressurise, even violently rupture containers.

### STORAGE REQUIREMENTS

- Store in original containers.
- Keep containers securely sealed.

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## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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### EXPOSURE CONTROLS

The following materials had no OELs on our records  
• sodium bicarbonate:

CAS:144- 55- 8

### PERSONAL PROTECTION

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## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION



### RESPIRATOR

Particulate

### EYE

- Safety glasses with side shields.
- Chemical goggles.

### HANDS/FEET

» Suitability and durability of glove type is dependent on usage. Factors such as:

- frequency and duration of contact,
- chemical resistance of glove material.

Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids,

where abrasive particles are not present.

- polychloroprene
- nitrile rubber.

### OTHER

- Overalls.
- P.V.C. apron.

### ENGINEERING CONTROLS

• Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction.

• If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE

White, crystalline odourless powder or granules. Soluble in water. Begins to lose carbon dioxide at about 50 deg.C., and at 100 deg.C it is converted into sodium carbonate. Insoluble in alcohol. Readily decomposed by weak acids. Slowly decomposes in moist air.

### PHYSICAL PROPERTIES

Solid.  
Mixes with water.

Molecular Weight: 84.0

Melting Range (°C): 70 (decomposes)

Solubility in water (g/L): Miscible

pH (1% solution): 8.4

Volatile Component (%vol): Nil

Relative Vapour Density (air=1): Not applicable.

Lower Explosive Limit (%): Not applicable

Autoignition Temp (°C): Not applicable

State: Divided solid

Boiling Range (°C): Not applicable.

Specific Gravity (water=1): 2.16

pH (as supplied): Not applicable

Vapour Pressure (kPa): Not applicable.

Evaporation Rate: Not applicable

Flash Point (°C): Not applicable

Upper Explosive Limit (%): Not applicable

Decomposition Temp (°C): 270

Viscosity: Not Applicable

## Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

### CONDITIONS CONTRIBUTING TO INSTABILITY

- Presence of incompatible materials.

Product is considered stable and hazardous polymerisation will not occur.

*For incompatible materials - refer to Section 7 - Handling and Storage.*

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## Section 11 - TOXICOLOGICAL INFORMATION

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### POTENTIAL HEALTH EFFECTS

#### ACUTE HEALTH EFFECTS

- » May produce discomfort of the eyes and skin\*.
- » \* (limited evidence).

#### CHRONIC HEALTH EFFECTS

- » Not applicable.

### TOXICITY AND IRRITATION

» The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis.

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## Section 12 - ECOLOGICAL INFORMATION

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No data

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## Section 13 - DISPOSAL CONSIDERATIONS

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- Recycle where possible  
  Otherwise ensure that:
- licenced contractors dispose of the product and its container.

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## Section 14 - TRANSPORTATION INFORMATION

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HAZCHEM: None

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: UN, IATA, IMDG

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## Section 15 - REGULATORY INFORMATION

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### REGULATIONS

sodium bicarbonate (CAS: 144-55-8) is found on the following regulatory lists;  
CODEX General Standard for Food Additives (GSFA) - Additives Permitted for Use in Food in General, Unless Otherwise Specified, in Accordance with GMP  
IMO Provisional Categorization of Liquid Substances - List 1: Pure or technically pure products  
International Council of Chemical Associations (ICCA) - High Production Volume List  
New Zealand Inventory of Chemicals (NZIoC)  
OECD Representative List of High Production Volume (HPV) Chemicals  
Specific advice on controls required for materials used in New Zealand can be found at  
<http://www.ermanz.govt.nz/search/registers.html>

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## Section 16 - OTHER INFORMATION

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### NEW ZEALAND POISONS INFORMATION CENTRE

0800 POISON (0800 764 766)

NZ EMERGENCY SERVICES: 111

» Classification of the preparation and its individual components has drawn on official and authoritative sources as well as

independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

[www.chemwatch.net/references](http://www.chemwatch.net/references).

» The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether

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Section 16 - OTHER INFORMATION

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the reported Hazards are Risks in the workplace or other settings.

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