

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:

pH BUFFER

Product Description:

Use: Manufacture of effervescent salts and beverages, leavening agent, artificial mineral water, bath salt ingredient, pharmaceuticals, water softener, fire extinguishers, cleaning preparations, laboratory reagent, stockfeed buffer.

Supplier:

Poolcare Ltd

Street Address:

54A Hewletts Road
New Zealand

Telephone Number:

+64 7 575 8471

Facsimile:

Emergency Telephone:

N Z 0800 243 622 or International +64 3 353 0199 (ALL HOURS)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components / CAS Number	Proportion	Risk Phrases
Carbonic acid, monosodium salt 144-55-8	>60%	-

3. HAZARDS IDENTIFICATION

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

Not classified as a Dangerous Good under NZS 5433:1999 Transport of Dangerous Goods on Land.

Subclasses:

Subclass 6.1 Category E - Substances which are acutely toxic.

Subclass 6.3 Category B - Substances that are mildly irritating to the skin.

Subclass 6.4 Category A - Substances that are irritating to the eye.

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Seek medical advice if effects persist.

Skin Contact:

If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.

Eye Contact:

If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion:

Rinse mouth with water. If swallowed, give a glass of water to drink. If vomiting occurs give further water. Seek medical advice.

Notes to physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Specific Hazards: Non-combustible material.

Fire-fighting advice:

Decomposes on heating emitting toxic fumes, including those of oxides of carbon. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

Suitable Extinguishing Media:

Not combustible, however, if material is involved in a fire use: Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact. Avoid breathing in dust. Work up wind or increase ventilation. Collect and seal in properly labelled containers or drums for disposal. Wash area down with excess water.

7. HANDLING AND STORAGE

Handling advice: Avoid skin and eye contact and breathing in dust.

Storage advice: Store in a cool, dry, well ventilated place and out of direct sunlight. Keep containers sealed as material may absorb moisture. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for spills.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

No value assigned for this specific material by the New Zealand Occupational Safety and Health Service (OSH). However, Workplace Exposure Standard(s) for particulates:

Particulates not otherwise classified: 8hr WES-TWA = 10 mg/m³ (inspirable dust) or 3 mg/m³ (respirable dust)
As published by the New Zealand Occupational Safety and Health Service (OSH).

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering Control Measures:

Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Avoid generating and breathing in dusts. Use with local exhaust ventilation or while wearing dust mask. Keep containers closed when not in use.

Personal Protective Equipment:

Minimum recommended requirements: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, DUST MASK.

Wear overalls, safety glasses and impervious gloves. Avoid generating and inhaling dusts. If dust exists, wear dust mask/respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Colour:	Crystalline Powder White
Odour:		Odourless
Molecular Formula:		CH ₂ O ₃ .Na
Solubility:		Soluble in water.
Specific Gravity:		2.16 @20°C
Relative Vapour Density (air=1):		Not available
Vapour Pressure (20 °C):		Not available
Flash Point (°C):		Not applicable
Flammability Limits (%):		Not applicable
Autoignition Temperature (°C):		Not available
Melting Point/Range (°C):		Not available
Decomposition Point (°C):		270
pH:		8.4 (1% aqueous solution)

10. STABILITY AND REACTIVITY

Stability: Incompatible with acids , and moisture .

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion:	No adverse effects expected, however large amounts may cause nausea and vomiting.
Eye contact:	May be an eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.
Skin contact:	Contact with skin will result in mild irritation. (1)
Inhalation:	Breathing in dust may result in respiratory irritation.

Long Term Effects: No information available for the product.

Toxicological Data: Oral LD50 (rat): 4220 mg/kg. (1) Oral LD50 (mice): 3360 mg/kg. (1) SKIN: Mild irritant (human). (1)
EYES: Mild irritant (rabbit). (1)

12. ECOTOXICOLOGICAL INFORMATION

Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Refer to Waste Management Authority. Normally suitable for disposal at approved land waste site.

14. TRANSPORT INFORMATION

Road and Rail Transport

Not classified as a Dangerous Good under NZS 5433:1999 Transport of Dangerous Goods on Land.

Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

Classification:

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

Subclasses:

Subclass 6.1 Category E - Substances which are acutely toxic.

Subclass 6.3 Category B - Substances that are mildly irritating to the skin. Subclass

6.4 Category A - Substances that are irritating to the eye.

Approval Number:

HSR002684

16. OTHER INFORMATION

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Poolcare Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their representative or Poolcare Limited at the contact details on page 1.

Poolcare Limited's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.