POOLCARE SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** **SODIUM BICARBONATE (ALL GRADES)**

**Other name(s):** **Buffer,** Sodium hydrogen carbonate; Baking soda; Bicarbonate of soda; Sodium acid carbonate;

Bicarbonato de sodio; Carbonato acido de sodio; Carbonato hidrogeno de sodio

**Recommended use of the chemical and restrictions on use:** Wide variety of industrial, chemical and food related applications.

**Distributor Details:**
**Street Address:**
Poolcare Ltd
54A Hewletts Road
Mt Maunganui South

**Telephone Number:** +64 7 575 8471
**After Hours:** 0272 413 487

**IF YOU HAVE A CHEMICAL EMERGENCY PHONE 111 AND ASK FOR FIRE**

**In case of Poisoning contact THE NATIONAL POISONS CENTRE ON 0800 POISON (0800 764 766)**

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

## 2. HAZARDS IDENTIFICATION

Not classified as a Dangerous Good under NZS 5433:2012 Transport of Dangerous Goods on Land.

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

**SIGNAL WORD:** WARNING

**Subclasses:**
Subclass 6.1 Category E - Substances which are acutely toxic.

**Hazard Statement(s):**
H303 May be harmful if swallowed.

**Precautionary Statement(s):**

**Prevention:**
P102 Keep out of reach of children.

**Response:**
P312 Call a POISON CENTER or doctor/physician if you feel unwell.

**Storage:**
No storage statements.

**Disposal:**
P501 In case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS Number | Proportion | Hazard Codes |
|---|---|---|---|
| Carbonic acid, monosodium salt | 144-55-8 | >99% | - |
| Other non-hazardous components | - | to 100% | - |

## 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, do NOT induce vomiting. Give a glass of water. Seek medical advice.

**Indication of immediate medical attention and special treatment needed:**
Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:**
Not combustible, however, if material is involved in a fire use: Extinguishing media appropriate to surrounding fire conditions.

**Specific hazards arising from the substance or mixture:**
Non-combustible material.

**Special protective equipment and precautions for fire-fighters:**
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.

## 6. ACCIDENTAL RELEASE MEASURES

**Emergency procedures/Environmental precautions:**
If contamination of sewers or waterways has occurred advise local emergency services.

**Personal precautions/Protective equipment/Methods and materials for containment and cleaning up:**
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

**Precautions for safe handling:** Avoid skin and eye contact and breathing in dust.

**Conditions for safe storage, including any incompatibilities:** Store in a cool, dry, well ventilated place. 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

**Workplace Exposure Standards:** No value assigned for this specific material by the New Zealand Workplace Health & Safety Authority. However, Workplace Exposure Standard(s) for particulates:

Particulates not otherwise classified: 8hr WES-TWA 10 mg/m$^3$ (inhalable dust) or 3 mg/m$^3$ (respirable dust)

As published by the New Zealand Workplace Health & Safety Authority.

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 Workplace 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 workplace 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.

**Appropriate engineering controls:**
Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace Exposure Standards. Keep containers closed when not in use.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Orica Personal Protection Guide information (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

**Individual protection measures, such as Personal Protective Equipment (PPE):**
The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, DUST MASK.

Wear overalls, safety glasses and impervious gloves. Avoid generating and inhaling dusts. If determined by a risk assessment an inhalation risk exists, wear a 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 re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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|---|---|
| **Physical state:** | Crystalline Powder |
| **Colour:** | White |

***SODIUM BICARBONATE (pH buffer)***

| | |
|---|---|
| **Odour:** | Odourless |
| **Molecular Formula:** | CH2O3.Na |
| **Solubility:** | Soluble in water. |
| **Specific Gravity:** | 2.159 (bulk density about 1.0) |
| **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 applicable |
| **Melting Point/Range (°C):** | Starts to decompose at about 70°C. |
| **Decomposition Point (°C):** | Starts at about 70°C. |
| **pH:** | ca. 8.4 (1% aqueous solution) |

## 10. STABILITY AND REACTIVITY

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|---|---|
| **Reactivity:** | No information available. |
| **Chemical stability:** | Stable under normal conditions of use. |
| **Possibility of hazardous reactions:** | Hazardous polymerisation will not occur. |
| **Conditions to avoid:** | Avoid dust generation. Avoid exposure to moisture. Avoid temperatures above 30 °C. |
| **Incompatible materials:** | Incompatible with acids , and water . |
| **Hazardous decomposition products:** | Carbon dioxide. Sodium compounds. |

## 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 may result in irritation. |
| **Inhalation:** | Breathing in dust may result in respiratory irritation. |

**Acute toxicity:**
Oral LD50 (rat): 4220 mg/kg

**Chronic effects:** Not listed as carcinogenic according to IARC.

## 12. ECOLOGICAL INFORMATION

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|---|---|
| **Ecotoxicity** | Avoid contaminating waterways. |

***SODIUM BICARBONATE (pH buffer)***

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods:**
Refer to local government authority for disposal recommendations. Dispose of contents/container in accordance with local/regional/national/international regulations.

## 14. TRANSPORT INFORMATION

**Road and Rail Transport**
Not classified as a Dangerous Good under NZS 5433:2012 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; NON-DANGEROUS GOODS.

**Air Transport**
Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

## 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.

**Hazard Statement(s):**
H303 May be harmful if swallowed.