



# Material Safety Data Sheet

VIVAL CHEMICALS PTY. LTD.

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

- **Product Name:** Sodium Bicarbonate (All Grades)
- **Other Names:** Sodium Hydrogen Carbonate, Baking Soda, Bicarbonate of Soda
- **Recommended Use:** Cleaning Preparations, Pharmaceuticals, Food Additive, Fire Extinguishers
  
- **Supplier:** Vival Chemicals Pty Ltd
- **ABN:** 61 266 127 926
- **Address:** 14 Thomas Rd,  
Laverton North, 3026,  
Victoria, Australia.
  
- **Telephone:** + 61 (03) 9360 9800
- **Fax:** + 61 (03) 9390 9697
- **Emergency Telephone:** Kieron Vale: **0417 374 389**  
Poisons Information Centre: **131 126**

## 2. HAZARD IDENTIFICATION

- **Hazard Classification** This material is Non- Hazardous according to criteria of National Occupational Health & Safety Commission.
  
- **Hazard Category:** None allocated
  
- **Risk Phrase(s):** None allocated
  
- **Safety Phrase(s):** None allocated
  
  
- **Poisons Schedule:** None allocated

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

### SUBSTANCE:

- **Chemical identity of the pure substance:**  $\text{NaHCO}_3$  Sodium Bicarbonate
- **Common name(s), synonym(s):** Bicarb, Baking Soda
- **CAS Number(s):** Sodium Bicarbonate 144-55-8.....>99%

## 4. FIRST AID MEASURES

### FIRST AID

- Eye:** Eyelids to be held open.  
Wash continuously with water for at least 15 minutes.  
In all cases of eye contamination it is a sensible precaution to seek medical advice.
- Skin:** Wash affected areas with plenty of water.  
Remove contaminated clothing and wash before re-use.  
Seek medical advice if irritation occurs.
- Inhaled:** Remove victim to fresh air.  
Avoid becoming a casualty.  
Allow patient to assume most comfortable position and keep warm.  
Seek medical advice.
- Swallowed:** Rinse mouth with water.  
Immediately contact Poisons Information Centre on 131126 (Aust. Wide).  
Give water to drink.  
**DO NOT** induce vomiting.  
If vomiting occurs give further water to achieve effective dilution.  
Seek medical assistance.
- Advice to Doctor:** Treat symptomatically.

### *Additional Information*

- *Not Available*

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## 5. FIRE FIGHTING MEASURES

### Fire/Explosion Hazard:

- Non-Flammable material. If involved in a fire will liberate carbon monoxide & hydrogen.
- Keep container cool with water spray.
- Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion or decomposition.

### Suitable Extinguishing Media: (Any or either of the following)

- Water Jets or Water Fog - in the absence of fog a fine spray must be used or Foam or Dry Agent - Water must NOT be allowed to come into contact with the dangerous goods at risk.

*Additional Information: Hazchem Code: None Allocated.*

## 6. ACCIDENTAL RELEASE MEASURES

- **Emergency procedures:** Clear Area of all unprotected personnel. Avoid accidents. Clean up immediately. Wear Personal Protective Equipment. Ensure adequate ventilation.
- **Methods and materials for containment and clean up:** Contain, prevent runoff into drain & waterways. Use absorbent (sand, soil or other inert material). Collect & Seal in properly labelled containers for disposal. If contamination of sewers has occurred advise local emergency services.

## 7. HANDLING AND STORAGE

- Ensure correct fitting of Personal Protective Equipment prior to handling.
- Store in a cool, dry place away from direct sunlight.
- Store away from oxidizing agents and food stuffs.
- Store away from sources of ignition.
- Keep containers closed when not in use.
- Do not enter confined spaces where vapours may have collected.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### National Exposure Standards:

No value assigned for this specific material by the National Occupational Health and Safety Commission, (NOHSC), however for the product:

- ES-TWA = 10mg/m<sup>3</sup> Nuisance Particulate (Total Dust) should apply  
ES-STEL = Not available  
ES-PEAK LIMITATION = Not available
- **ES-TWA is the Time Weighted Average** concentration of the work atmosphere for a normal 8-hour day and a 40 hour week, to which nearly all workers can be repeatedly exposed, day after day, without adverse effect.
- **ES-STEL - Short Term Exposure Limit** is the average airborne concentration over a fifteen minute period which should not be exceeded at any time during a normal eight hour work day.
- **ES- PEAK LIMITATION** (For some rapidly acting substances and irritants, the average of airborne concentration over an eight hour period is inappropriate. These substances may induce acute effects after relatively brief exposure to high concentrations and so the exposure standard for these substances represents a maximum or peak concentration to which workers may be exposed.  
An analytically practicable period of time which does not exceed 15 minutes).

### Engineering Controls:

- Ensure ventilation is adequate and that air concentrations of components are controlled below quoted exposure standards.
- If Inhalation risks exist, use with local exhaust ventilation or with use of air filtered respirator.

### Personal Protective Equipment:

- The selection of Personal Protective Equipment should be made following a detailed risk assessment. Consideration should be given to the physical form of the chemical, the handling methods and environmental factors such as the area of use, ventilation and exposure times and levels.
- Wear safety goggles/glasses, chemically resistant P.V.C or nitrile rubber gloves, protective clothing and protective footwear.
- If dusts exist, wear a particulate/mist type respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.
- Always wash hands before smoking, eating, drinking or using the toilet.
- Use with adequate ventilation.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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- Formula  $\text{NaHCO}_3$
- Appearance
  - Colour: White
  - Physical form: Solid
  - Shape: Powder of Crystalline Lumps
- Odourless
- pH: 8.4 (1% solution)
- Vapour Pressure: Not available
- Vapour Density: Not available
- Boiling Point/Range: Not available
- Melting Point: Starts to decompose at 70° c
- Solubility: Soluble in water (90g/l) @ 20°c
- Density: 2.159 @ 20°c
- Flash point and method of detecting flash point: Not available
- Upper and lower flammable (explosive) limits in air: Not available
- Ignition temperature: Not available
- Molecular Weight: 84.01

## Additional Information:

Not Available

## 10. STABILITY AND REACTIVITY

- **Chemical stability**  
Product is stable under normal ambient and anticipated storage and handling condition of temperature and pressure.
- **Conditions to avoid**  
Avoid exposure to moisture. Avoid dust generation.
- **Incompatible Materials**  
Incompatible with acids.
- **Hazardous decomposition products**  
Oxides of carbon, oxides of carbon and sodium.
- **Hazardous Reactions**  
Hazardous Polymerisation will not occur.

## 11. TOXICOLOGICAL INFORMATION

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Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

**Chronic Effects:** Repeated or Prolonged skin contact may cause chronic dermatitis.

**Acute effects:**

**Ingestion:** Swallowing large amounts can result in nausea, vomiting, diarrhoea, abdominal pain and irritation to the gastrointestinal tract.

**Eye Contact:** A mild eye irritant. Contact of eyes can result in irritation.

**Skin Contact:** Contact with skin will result in mild irritation.

**Inhalation:** Breathing in dusts may produce respiratory irritation.

**Toxicity Data:**

Oral LD 50 = 4,220 mg/kg (rat)  
Dermal LD50 = Mild irritant (human)  
Inhalation LC50 = Not available

## 12. ECOLOGICAL INFORMATION

- |                                 |                               |
|---------------------------------|-------------------------------|
| ▪ Ecotoxicity                   | Avoid contaminating waterways |
| ▪ Persistence and degradability | Not Available                 |
| ▪ Mobility                      | Not Available                 |

Additional Information

- |                                 |               |
|---------------------------------|---------------|
| ▪ Environmental Fate (Exposure) | Not Available |
| ▪ Bioaccumulative potential     | Not Available |

## 13. DISPOSAL CONSIDERATIONS

- **Disposal methods and containers**  
Collect and seal in properly labelled plastic or plastic lined drums for disposal to an approved trade waste facility.
- **Special precautions for landfill or incineration**  
Not Available

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## 14. TRANSPORT INFORMATION

- |                                 |                                 |
|---------------------------------|---------------------------------|
| ▪ <b>UN Number:</b>             | <b>UN Proper Shipping name:</b> |
| ▪ <b>Dangerous Goods Class:</b> | <b>Subsidiary risk:</b>         |
| ▪ <b>Hazchem Code:</b>          | <b>Packing Group:</b>           |

## 15. REGULATORY INFORMATION

- Not designated a Dangerous Good by the Australian Dangerous Goods Code (Road & Rail)
- Not designated a Scheduled Poison by the Standard of Uniform Scheduling of Drugs & Poisons Victoria. (If in other states consult your local authority)
- Not designated a Hazardous Substance by the National Occupational Health and Safety Committee (NOHSC).

### *Additional Information*

*No data available*

## 16. OTHER INFORMATION

- Prepared & Revised: January 2009
- Previous Revision: August 2006

### *Additional Information*

- *Not Available*

END OF MATERIAL SAFETY DATA SHEET

## **DISCLAIMER**

*All information contained in this data sheet is believed by Vival Chemicals P/L to be as accurate and up to date as possible. It is given in good faith but no warranty is made as to its accuracy, completeness or otherwise. Every person dealing with the materials referred to herein does so at his own risk absolutely and must make independent determination of suitability and completeness of information from all sources to ensure their proper use. No expressed or implied warranties are given other than those implied mandatory by the Commonwealth State or Territory legislation.*