

# VETPAK SAFETY DATA SHEET

## Section 1: Identification of the Substance or Mixture and of the Supplier

**Product Name:** SODIUM BICARBONATE

**Other names:** Baking Soda; Bicarbonate of soda; Sodium acid carbonate; Monosodium carbonate; Sodium hydrogen carbonate; Carbonic acid monosodium salt.

**Recommended Use:** Acidity regulator, Anticaking agent.

**Company Details:** Vetpak Ltd.

**Address:** 150 Rickit Road, Te Awamutu.

**Telephone Number:** (07) 870 2024

**Emergency Telephone Number:** (07) 870 2024 8.00am to 5.00pm Monday to Friday except public holidays. National Poisons Centre, Department of Preventative and Social Medicine, University of Otago, P O Box 913, Dunedin, New Zealand. Phone (0800) 764-766 24 hours.

**Date of Revision:** 8<sup>th</sup> August 2008

## Section 2: Hazards Identification

**Hazards Classification:** Not hazardous according to the criteria of ERMA. Sodium bicarbonate appears on the GRAS list.

## Section 3: Composition / Information on Ingredients:

### INGREDIENTS:

Pure Substance	CAS Number	Proportion
Sodium bicarbonate	144-55-8	>99%
Inorganic salts, water		<1%

## Section 4: First Aid Measures:

### Description of necessary first Aid measures:

**Swallowed:** Thoroughly rinse mouth with water. Give large amounts of water to drink. Seek medical attention.

**Skin:** Immediately wash affected areas with plenty of water. Heavily contaminated clothing should be laundered before re-use.

**Eye:** Immediately irrigate eyes, including under the eyelids with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

**Inhaled:** Remove promptly from exposure to fresh air. Seek medical attention if any symptoms persist. If breathing difficult, provide oxygen.

**Aggravated medical conditions caused by exposure:** This product is used widely in food and medicine. Under normal circumstances, considered to be practically non-harmful by all exposure routes. No evidence of carcinogenicity. Eyes: prolonged contact with dusts may cause conjunctivitis. Skin: repeated exposure may lead to contact dermatitis. Skin irritation may be aggravated in persons with existing skin lesions. Inhalation: acute or chronic asthma may be aggravated by breathing of dust.

**Notes for Medical Personnel:** Treat symptomatically.



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## Section 5: Fire Fighting Measures

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**Fire Hazard Properties:** Not flammable under conditions of use.

**Extinguishing Media & Methods:** Use equipment and media appropriate to surrounding fire conditions.

**Recommended Protective Clothing:** Fire fighters should wear a self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.

**Hazards from Combustion Products:** This material is not flammable. Will liberate carbon dioxide and form sodium carbonate, which is a respiratory and skin irritant. Avoid contacts with acids and heat. Avoid combined exposure to lime dust and sodium bicarbonate as caustic soda may be formed on the skin.

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## Section 6: Accidental Release Methods

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**Procedures to be covered:** Clean-up personnel should wear personal protective equipment to protect against excessive skin or eye contact.

**Methods and Materials for Containment and Clean-up.** Scoop into a coverable container for recovery or disposal. Residues can be washed with large volumes of water.

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## Section 7: Handling and Storage

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**Handling Practices:** Not defined as Dangerous Goods for transport by road or rail.

**Storage:** Store in a cool dry location. Isolate from acids and heat.

**Store Site Requirements:** Ensure an eye bath and wash room facilities are available and ready for use.

**Packaging:** Bags, plastic bags inside plastic container.

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## Section 8: Exposure Controls / Personal Protection

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**Workplace Exposure Standards:** An exposure standard has not been established for this product. However, the following is recommended for nuisance dusts: Dusts not otherwise classified: TWA 10mg/M<sup>3</sup> (as inspirable dust)

**Engineering Controls:** Use handling techniques and equipment that minimises dust generation. General or local exhaust ventilation may be necessary to achieve low dust levels.

**Personal Protection:** Eye protection – wear safety glasses (preferably wrap-around style). Skin protection – wear overalls, rubber gloves or leather gloves (with solutions). Respiratory protection – if dust levels are high (> 10mg/M<sup>3</sup>) an approved respirator meeting standard 1716 should be provided. Heavily contaminated clothing should be removed and laundered before re-use.

**General hygiene:** Avoid wearing contact lenses. Always wash hands before eating, drinking, smoking or using toilet facilities.

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## Section 9: Physical and Chemical Properties

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**Physical State:** Powder.

**Appearance:** White crystalline powder.

**Formula:** NaHCO<sub>3</sub>

**Boiling Point:** Not available.

**Melting Point:** Decomposes at 70°C.

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**Specific Gravity:** 1.0 (granular form) (Water = 1.0)

**Flash Point:** Not applicable.

**pH:** 8.4 (10g/L)

**Flammability Limits:** Not flammable.

**Solubility in Water:** 96g/L at 20°C.

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## Section 10: Stability and Reactivity

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**Stability of the Substance:** Stable under usual conditions of use and storage.

**Conditions to avoid:** Heat, moisture, incompatibilities.

**Material to avoid:** Reacts with acids to form carbon dioxide. Dangerous reaction with monoammonium phosphate, or a sodium-potassium alloy.

**Hazardous decomposition Products:** Gaseous carbon dioxide.

**Hazardous polymerization:** Will not occur.

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## Section 11: Toxicological Information

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**Toxicity Data:** Oral LD<sub>50</sub> = 4220mg/Kg (rat)

**Acute Effects:**

**Swallowed:** Non-toxic unless ingested in massive doses. May cause nausea, vomiting and abdominal pains. Doses over 5g/Kg body weight can cause alkalosis and expansion in extracellular fluid volume with oedema.

**Skin:** May cause mild skin irritation in sensitive individuals, particularly if the skin is moist.

**Eye:** May cause mild eye irritation.

**Inhaled:** May cause cough and mild respiratory irritation.

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## Section 12: Ecological Information

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**Environmental Considerations:** Not applicable.

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## Section 13: Disposal Considerations

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**Disposal;** Waste material should be disposed of following local, regional and government regulations.

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## Section 14: Transport Information

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**U.N. number:** Not allocated.

**Shipping name:** Sodium bicarbonate.

**Dangerous Goods Class:** Not allocated.

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## Section 15: Regulatory Information

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**Regulatory status:** Appears on the GRAS (Generally regarded as safe) list of ERMA, New Zealand.

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## Section 16: Other Information

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**Additional Information:** National Poisons Centre, Department of Preventative and Social Medicine, University of Otago, P O Box 913, Dunedin, New Zealand. Phone (0800) 764-766 24 hours.

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1. The above information has been compiled on the basis of good faith, and our experience from the available technical knowledge and data for this product.
  2. Where health or safety data given discloses a risk to the user or environment, it is the responsibility of the Purchaser to pass on that information to employees or those who may be using the product, ensuring that adequate safety procedures are used.
  3. No responsibility can be accepted for the wrongful or misinterpretation of this data.
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