



# **PRICE CHEMICALS PTY LIMITED**

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## **MATERIAL SAFETY DATA SHEET**

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**NOT Hazardous according to criteria of Worksafe Australia**

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**Date of Issue : 1<sup>st</sup> January 2005**

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### **1. IDENTIFICATION**

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#### **General**

Product Name : SODIUM BICARBONATE

Other Names : BAKING SODA ; SODIUM ACID CARBONATE BICARBONATE OF SODA

UN No. : N/A

Dangerous Goods Class : None Allocated

Subsidiary Risk : None Allocated

Hazchem Code : N/A

Pack Group : 0

EPG : N/A

Poisons Schedule : N/A

Uses :

Manufacture of effervescent salts and beverages, artificial mineral water, baking powder; other sodium salts, pharmaceuticals, sponge rubber, gold and platinum plating, treating wool and silk, fire extinguishers, prevention of timber mould, cleaning preparations, lab reagent, antacid, mouthwash.

#### **1.1 Physical Description / Properties**

Appearance : White powder or crystalline lumps; cooling, slightly alkaline taste.

Formula : NaHCO<sub>3</sub>

Boiling Point : N/A deg C

Melting Point : 270 deg C

Vapour Pressure : N/A

Specific Gravity : 2.159 (water = 1)

Flash Point : N/A

pH : 8.4 (10 g/L)

Solubility in water : 96 g/l (25 deg C)

Flammability Limits (as percentage volume in air)

Lower Explosion Limit : N/A

Upper Explosion Limit : N/A

### 1.2 Other Properties

Decomposes at 270 deg C. Insoluble in acetone, chloroform, diethyl ether and ethanol.

### 1.3 Ingredients

Chemical Entity	CAS No.	Proportions (%)
SODIUM BICARBONATE	[ 144-55-8]	> 99
INORGANIC SALTS, WATER		< 1

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## 2. HEALTH HAZARD INFORMATION

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### 2.1 Health Effects - Acute

#### 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.

#### Eye

May cause mild eye irritation.

## **Skin**

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

## **Inhaled**

May cause cough and mild respiratory irritation.

## **2.2 Health Effects - Chronic**

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.

## **2.3 First Aid**

### **Swallowed**

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

### **Eye**

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

### **Skin**

Immediately wash affected areas with plenty of water. Heavily contaminated clothing should be laundered before reuse.

### **Inhaled**

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

## **First Aid Facilities**

Ensure an eye bath and safety shower are available and ready for use.

## **2.5 Advice to Doctor**

Treat symptomatically based on judgement of doctor and individual reactions of patient.

## **2.6 Toxicity Data**

Oral LD50 = 4220 mg/kg (Rat) Dermal LD50 = not available Inhalation LC50 = not available

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## **3. PRECAUTIONS FOR USE**

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### **3.1 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 10 mg/m<sup>3</sup> (as inspirable dust)

### **3.2 Engineering Controls**

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

### **3.3 Personal Protection**

Wear overalls, safety glasses (preferably wrap-around style) and use leather or impervious (rubber) gloves with solutions. If dust levels are high (>10 mg/m<sup>3</sup>) and approved respirator meeting AS1716 should be provided. Heavily contaminated clothing should be removed and laundered before re-use. Protective equipment should be washed before storage and reuse. Avoid wearing contact lenses. Always wash hands before eating, drinking, smoking or using the toilet. Avoid combined exposure to lime dust and sodium bicarbonate as caustic soda may be formed on the skin.

### **3.4 Flammability**

Not flammable under conditions of use.

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## **SAFE HANDLING INFORMATION**

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### **4.1 Storage / Transport**

This product is not classified as dangerous goods under the provisions of the Australian Code for the Transport of Dangerous Goods by Road and Rail. The product should be stored in a cool, dry location. Isolate from acids and heat.

### **4.2 Packaging / Labelling**

UN No. N/A

Class None Allocated

Sub Risk None Allocated

Hazchem Code N/A

Pack Group 0

EPG No. N/A

Shipping Name SODIUM BICARBONATE

Hazard

## Risk Phrases

## Safety Phrases

### 4.3 Spills and Disposal

#### Spills

Clean up personnel should wear protective glasses and approved dust mask. Avoid generating airborne dust.

Flush small spills away with plenty of water. Sweep up large spills together with dust binding agent or use a vacuum cleaner. Place waste in drums and hold for waste disposal.

#### Disposal

Dispose of waste by landfill in accordance with all Local, State and Federal regulations at an approved waste disposal facility.

### 4.4 FIRE AND EXPLOSION HAZARD

#### Fire / Explosion

This material is not flammable. Will liberate carbon dioxide and form sodium carbonate, which is a respiratory, skin and eye irritant.

#### Extinguishing Media

Fire-fighters should wear a self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin. Use equipment/media appropriate to surrounding fire conditions.

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## 5 OTHER INFORMATION

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### Other Information

No data available

### 5.1 Contact Points

Organisation	Location	Telephone	Ask For
Price Chemicals Pty Ltd	Somersby 2250	02 – 4340 0088	Technical Officer
Poisons Information Centre	Westmead	131129	
		1800-251525	