PRICE CHEMICALS PTY LIMITED

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MATERIAL SAFETY DATA SHEET

Hazardous according to criteria of Worksafe Australia

Date of Issue : 1st January 2005

1. IDENTIFICATION

General

Product Name : SODIUM CARBONATE

Other Names : SODA ASH ; CALCINED SODA ; CARBONIC ACID DISODIUM SALT

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 :

Used in glass manufacture, detergent manufacture, sdoium chemicals and carbonate chemicals manufacture, pulp and paper, brine treatment, water hardness removal, pH adjustment in water or waste, flue gas desulfurisation, coal treatment, ion exchange resin regeneration.

1.1 Physical Description / Properties

Appearance : White granular, odourless powder.

Formula : Na2CO3

Boiling Point : Decom deg C

Melting Point : 851 deg C

Vapour Pressure : N/A

Specific Gravity : 2.509 (water = 1)

Flash Point : N/A

pH : 11.4 ()

Solubility in water : 33.2% 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

No data available

1.3 Ingredients

Chemical Entity	CAS No.	Proportions (%)
SODIUM CARBONATE	[497-19-8]	> 99

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2. HEALTH HAZARD INFORMATION

2.1 Health Effects - Acute

Swallowed

Moderately irritating to the mucous membranes of the throat.

Eye

Product is a severe irritant to the eyes. Causes a burning sensation to eyes.

Skin

Moderately irritating. Soda ash is mildly alkaline and will dissolve in human perspiration. Individuals with sensitive skin may incur mild skin irritation. Causes redness of the skin.

Inhaled

Moderately irritating to the nose and throat. Causes coughing and sneezing.

2.2 Health Effects - Chronic

Eye or skin disease and breathing or respiratory disorders will be aggravated by exposure to this chemical.

2.3 First Aid

Swallowed

If swallowed, DO NOT induce vomiting. Give 1 - 3 cups of water to drink. Never give anything by mouth to an unconscious person. Seek medical attention.

Eye

Immediately fulsh eyes with water for at least 15 minutes , lifting the upper and lower eyelids intermediately. See a medical doctor or ophthalmologist immediately.

Skin

Flsuh affected areas with plenty of running water. Wash clothing before reuse. Seek medical attention if irritation persists.

Inhaled

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Seek medical attention if effects persist.

First Aid Facilities

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

2.5 Advice to Doctor

While internal toxicity is low, irritant effects of high concehtrations may produce corneal opacities and vesicular skin reactions in humans with abraded skin only. Treatment is symptomatic and supportive.

2.6 Toxicity Data

Oral LD50 = 4090 mg/kg (rat) Inhalation LC50 = 2.3 mg/l (rat 2 hr) Eye effects = Severe irritant (rabbit) Skin effects = Non irritating to intact skin. Minor irritation may occur on abraded skin.

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3. PRECAUTIONS FOR USE

3.1 Exposure Standards

No exposure limit has been established but the following should be considered : ACGIH TLV-TWA for nuisance dust = 10 mg/m3 total dust, or = 5 mg/m3 respirable dust

3.2 Engineering Controls

Ensure adequate ventilation to maintain exposure levels below standards.

3.3 Personal Protection

Respirator - use a NIOSH/MSHA-approved dust type respirator. Eye protection - use safety glasses or goggles. Gloves - use gloves that will not allow alkaline solutions to penetrate. Other - wear easily washable clothing. Long-sleeve shirts, pants and gloves are usually sufficient. Wear clothing to minimise exposure.

3.4 Flammability

This product is not flammable and does not support combustion.

SAFE HANDLING INFORMATION

4.1 Storage / Transport

Soda ash is mildly hygroscopic. It will absorb atmospheric moisture to form an undesirable crust up to 5cm thick. To prevent this soda ash should be stored in weather-tight warehouses. Such warehouses should not be ventilated nor subject to gross changes in atmosphere.

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 CARBONATE

Hazard IRRITANT

Risk Phrases

R36 Irritating to eyes.

Safety Phrases

S2 Keep out of the reach of children.

S22 Do not breathe dust.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

4.3 Spills and Disposal

Spills

Avoid raising dust. Avoid contact with eyes, skin and clothing.

Soil release - shovel and sweep up. Hold for waste disposal. Water spill - dilute and disperse with water jets, propellers or similar agitation techniques. Air spill - keep upwind. Treat impact site as appropriate for soil or water. Occupational spill - shovel and sweep up. As permitted small spills may be washed to an industrial sewer. Large amounts can be disposed of at a chemical waste facility.

Disposal

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

4.4 FIRE AND EXPLOSION HAZARD

Fire / Explosion

This product is not flammable and does not support combustion. Normally stable. May react violently with strong acids. Carbon dioxide gas and large quantities of heat can be evolved. Reacts with hydrated lime in the presence of moisture to form caustic soda, a corrosive. Keep away from aluminium powder, fluorine, phosphorous pentoxide, sulphuric acid, ammoniacal silver nitrate and molten lithium. Soda ash decomposes above 1000 deg C releasing carbon dioxide gas. Do not expose material to intense heat.

Extinguishing Media

Use media such as water, water fog, carbon dioxide, dry chemical. Hazardous decomposition products include when product is heated to decomposition, which emits fumes of sodium oxide.

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5 OTHER INFORMATION

Other Information

No data available

5.1 Contact Points

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