



## **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 THIOSULPHATE

Other Names : SODIUM HYPOSULPHITE ; SODIUM SUBSULPHITE

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 :

Photography (fixing agent to dissolve unchanged silver salts from exposed negatives), chrome tanning, removing chlorine in bleaching and papermaking, extraction of silver from its ores, dechlorination of water, mordant, reagent, bleaching, reducing agent in chrome dyeing, sequestrant in salt (up to 0.1%), antidote for cyanide poisoning.

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

Appearance : White, translucent crystals or powder, cooling taste and bitter after taste, hygroscopic

Formula : Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>.5HOH

Boiling Point : > 100 deg C

Melting Point : 48.5 deg C

Vapour Pressure : N/A

Specific Gravity : 1.729 (water = 1)

Flash Point : N/A

pH : N/A ()

Solubility in water : 680 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

Soluble in water and oil of turpentine, insoluble in alcohol, deliquescent in moist air, efflorescent above 33 deg C in dry air.

### 1.3 Ingredients

Chemical Entity	CAS No.	Proportions (%)
SODIUM THIOSULPHATE PENTAHYDRATE	[10102-17-7]	> 99
Ingredients determined to be non Hazardous		balance

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## 2. HEALTH HAZARD INFORMATION

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### 2.1 Health Effects - Acute

#### Swallowed

Low level of toxicity by ingestion. Large amounts may cause gastrointestinal irritation and diarrhea.

#### Eye

May cause mechanical eye irritations.

### **Skin**

Prolonged and/or repeated contact may cause irritation and/or dermatitis.

### **Inhaled**

May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

## **2.2 Health Effects - Chronic**

Chronic exposure may cause skin effects.

## **2.3 First Aid**

### **Swallowed**

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention.

### **Eye**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Seek medical attention.

### **Skin**

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Seek medical attention if irritation develops or persists.

### **Inhaled**

Remove victim from exposure. Avoid becoming casualty. If effects persist seek medical attention.

### **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 individual reactions of patient and judgement of doctor.

## **2.6 Toxicity Data**

Oral LD50 = 2700 mg/kg (Rat) Oral LDLo = 300 mg/kg/7D Dermal LD50 = not available  
Inhalation LC50 = not available

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## **3. PRECAUTIONS FOR USE**

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### **3.1 Exposure Standards**

No exposure limit has been set for this product. However, a precautionary limit of 10 mg/m<sup>3</sup> for nuisance dusts should be observed.

### **3.2 Engineering Controls**

In general, dilution ventilation is satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

### **3.3 Personal Protection**

Respiratory - wear an approved respirator in heavy dust conditions. Eyes - wear appropriate protective eyeglasses or chemical safety goggles Skin - Wear impervious gloves. Clothing - wear appropriate protective gloves and clothing to prevent skin contact. Wash hands and face thoroughly after handling and before eating, drinking, smoking or using the toilet.

### **3.4 Flammability**

Material is not flammable.

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## **SAFE HANDLING INFORMATION**

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### **4.1 Storage / Transport**

Store in a cool, dry area away from direct heat. Avoid acids and strong oxidants. Avoid storage with sodium nitrite.

### **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 THIOSULPHATE

Hazard

**Risk Phrases**

**Safety Phrases**

### 4.3 Spills and Disposal

#### Spills

Ensure appropriate protective gear is worn.

Sweep up or shovel spill into a suitable container for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

#### Disposal

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

### 4.4 FIRE AND EXPLOSION HAZARD

#### Fire / Explosion

Material may decompose in a fire. When heated to decomposition emits very toxic fumes of Na<sub>2</sub>O and SO<sub>x</sub>. Incompatible with acids, iodine, lead salts, mercury and silver. Reacts violently with sodium nitrite. Hazardous decomposition products include hydrogen sulphide and sodium oxide.

#### Extinguishing Media

Use carbon dioxide, dry chemical powder, alcohol or polymer foam.

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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 NSW	02-4340 0088	Technical Officer
Poisons Information Centre	Westmead	131129	
		1800-251525	