



# PRICE CHEMICALS PTY LIMITED

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## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION

**Revision Date :** 1<sup>st</sup> July 2011

**Product Name :** SODIUM PERSULPHATE

**Other Names :** SODIUM PEROXYDISULPHATE PEROXYDISULPHURIC ACID, DISODIUM SALT

**Uses :** Bleaching agent (fats, oils, fabrics, soap), battery depolarisers. Initiators for emulsion polymerisation reactions such as acrylics, PVC, polystyrenes, neoprene, SBR and others. Also used for etching of printed circuits.

Organisation	Location	Telephone	Ask For
Price Chemicals Pty Ltd	10 Pile Road Somersby NSW Australia	+61 2 43401455	Technical Officer
Poisons Information Centre	Westmead NSW Australia	131126 1800-251525	
Chemcall	Australia New Zealand	1800-127406 0800-243622	
National Poisons Centre	New Zealand	0800-764766	

### 2. HAZARD IDENTIFICATION

**Hazardous according to criteria of NOHSC/ASCC**

**Dangerous According to the Australian Code for the Transport of Dangerous Goods**

**Classified as Dangerous Goods According to NZS 5433:1999**

IRRITANT; OXIDIZING

#### Risk Phrases

R22 Harmful if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.  
R42/43 May cause sensitization by inhalation and skin contact.  
R8 Contact with combustible material may cause fire.

### Safety Phrases

S3 Keep in a cool place.  
S7 Keep container tightly closed.  
S17 Keep away from combustible material.  
S51 Use only in well ventilated areas.  
S22 Do not breathe dust.  
S24/25 Avoid contact with skin and eyes.  
S27 Take off immediately all contaminated clothing.

**ERMA New Zealand Approval Code :** HSR001357

**HSNO Hazard Classification :** 5.1.1C 6.1D 6.3A 6.4A 6.5A 6.5B 9.1D 9.2C 9.3C

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	CAS No.	Proportions (%)
PEROXYDISULFURIC ACID DISODIUM SALT	[ 7775-27-1]	90-100

### 4. FIRST AID MEASURES

#### Description of necessary measures according to routes of exposure

##### Swallowed

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

##### Eye

In case of eye contact, immediately flush with plenty of water for at least . 15 minutes.

##### Skin

In case of contact, flush skin with water.

##### Inhaled

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Prompt action is essential.

##### Advice to Doctor

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

## **Additional Information**

### **Aggravated medical conditions caused by exposure**

No information available.

## **5. FIRE FIGHTING MEASURES**

### **Extinguishing Media**

Fire-fighters should wear full protective clothing including self-contained breathing apparatus with full facepiece operated in positive pressure mode. Move exposed containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool. Not expected to be a fire hazard.

### **Hazards from Combustion Products**

Strong oxidizer. Contact with combustible materials, flammable materials, or powdered metals can cause fire explosion. NOTE: Decomposes at melting point.

### **Special protective precautions and equipment for fire fighters**

No Data Available

### **Flammability Conditions**

Unstable.

### **Additional Information**

Hazchem Code : 2W

## **6. ACCIDENTAL RELEASE MEASURES**

### **Emergency procedures**

Wear self-contained breathing apparatus and full protective clothing. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

### **Methods and materials for containment and clean up**

With clean shovel, carefully place material into clean dry container and cover, remove from area. Flush spill area with water.

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

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

## Conditions for safe storage, including any incompatibles

Keep container tightly closed. Store separately and away from flammable and combustible materials. Isolate from incompatible materials. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for this product. Store away from Aluminum, magnesium, strong reducing agents, combustible materials, strong acids, strong bases, halides, iron and other heavy metals. Keep away from heat and moisture.

## Container Type

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### National Exposure Standards

Sodium Persulphate : TWA = 0.1 mg/m<sup>3</sup> (ACGIH TLV)

### Biological Limit Values

No Data Available

### Engineering Controls

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation. A Manual of Recommended Practices, most recent edition, for details.

### Personal Protection

Personal Respiratory (NIOSH approved): For conditions of use where exposure to the substance is apparent, consult an industrial hygienist. For emergencies or instances where the exposure levels are not known, use a full face-piece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres. Skin protection: Wear impervious protective clothing, including boots, gloves lab coat, apron or coveralls, as appropriate, to prevent skin contact. Eye protection: Use chemical safety goggles and/or full face shield where dusting splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	White powder with no odor.
<b>Formula</b>	Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub>
<b>Odor</b>	No Data Available
<b>Vapor Pressure</b>	Not Applicable
<b>Vapor Density</b>	No data
<b>Boiling Point</b>	Not available deg C
<b>Melting Point</b>	Not available deg C
<b>Solubility in water</b>	see below
<b>Specific Gravity</b>	2.40 (Water = 1)

<b>Flash Point</b>	Not Applicable
<b>pH</b>	6.0 (1% solution )
<b>Flammability Limits (as percentage volume in air)</b>	
<b>Lower Explosion Limit</b>	Not available
<b>Upper Explosion Limit</b>	Not available
<b>Ignition Temperature</b>	No Data
<b>Specific Heat Value</b>	No Data
<b>Particle Size</b>	No Data
<b>Volatile Organic Compounds (VOC) content</b>	No Data
<b>Evaporation Rate</b>	No Data
<b>Viscosity</b>	No Data
<b>Percent Volatile</b>	No Data
<b>Octanol/Water partition coefficient</b>	No Data
<b>Saturated Vapor Concentration</b>	No Data
<b>Additional Characteristics</b>	No Data
<b>Flame Propagation/Burning Rate of Solid Materials</b>	No Data
<b>Properties of materials that may initiate or contribute to fire intensity</b>	No Data
<b>Potential for Dust Explosion</b>	No Data
<b>Reactions that Release Flammable Gases</b>	No Data
<b>Fast or Intensely Burning Characteristics</b>	No Data
<b>Non-flammables that could contribute unusual hazards to a fire</b>	No Data
<b>Release of invisible flammable vapors and gases</b>	No Data
<b>Decomposition Temperature</b>	No Data

#### **Additional Information**

Solubility: Appreciable (>10%) %volatile by volume @21 deg C : 0 Vapor Density (Air=1):  
8.0 Molecular Weight: 238.03

### **10. STABILITY AND REACTIVITY**

**Chemical Stability** : No Data

**Conditions to avoid** : No Data

**Incompatible Materials** : No Data

**Hazardous Decomposition Products** : No Data

**Hazardous Reactions** : No Data

### **11. TOXICOLOGICAL INFORMATION**

#### **Toxicity Data**

No data available.

#### **Health Effects - Acute**

### **Swallowed**

Harmful if swallowed. May be fatal. Irritation and burns to mouth and stomach.

### **Eye**

Severe irritation or burns.

### **Skin**

Severe irritation or burns.

### **Inhaled**

Irritation of upper respiratory tract.

## **12. ECOLOGICAL INFORMATION**

**Ecotoxicity** : No Data

**Persistence and degradability** : No Data

**Mobility** : No Data

### **Additional information**

**Environmental fate (exposure)** : No Data

**Bioaccumulative potential** : No Data

## **13. DISPOSAL CONSIDERATIONS**

### **Disposal**

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

### **Special Precautions for land fill or incineration**

No Data Available

## 14. TRANSPORT INFORMATION

UN No.	1505
Shipping Name	SODIUM PERSULPHATE
Dangerous Goods Class	5.1
Subsidiary Risk	None Allocated
Pack Group	III
Precaution for User	IRRITANT; OXIDIZING
Hazchem Code	2W



## 15. REGULATORY INFORMATION

Poisons Schedule	N/A
EPG	31
AICS Name	PEROXYDISULPHURIC ACID (((HO)S(O)2)2O2), DISODIUM SALT
NZ Toxic Substance	N
Additional information	No Data

## 16. OTHER INFORMATION

### Additional information

### Legend to abbreviations and acronyms:

<	less than
>	greater than
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (Registry Number)
CO2	Carbon Dioxide
COD	Chemical Oxygen Demand
ERMA	Environmental Risk Management Authority
HSNO	Hazardous Substance and New Organism
IDLH	Immediately Dangerous to Life and Health
LC50	LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
LD50	LD stands for "Lethal Dose". LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals
Misc	miscible
N/A	Not Applicable
NIOSH	National Institute for Occupational Safety and Health
NOHSC	National Occupational Health and Safety Commission
OECD	Organization for Economic Co-operation and Development
PEL	Permissible Exposure Limit
RCP	Reciprocal Calculation Procedure
STEL	Short Term Exposure Limit

TLV	Threshold Limit Value
TWA	Time Weighted Average
UN	United Nations (number)
cm <sup>2</sup>	square centimeters
deg C ( °C )	degrees Celsius
g	gram
g/cm <sup>3</sup>	grams per cubic centimeter
g/l	grams per liter
immiscible	liquids are insoluble in each other
kg	kilogram
kg/m <sup>3</sup>	kilograms per cubic meter
ltr	Liter
m <sup>3</sup>	cubic meter
mPa.s	milli Pascal per second
mbar	millibar
mg	milligram
mg/24H	milligrams per 24 hours
mg/kg	milligrams per kilogram
mg/m <sup>3</sup>	milligrams per cubic meter
miscible	liquids form one homogeneous liquid phase regardless of the amount of either component present
mm	millimeter
ppb	parts per billion
ppm	parts per million
ppm/2h	parts per million per 2 hours
ppm/6h	parts per million per 6 hours
tne	tonne
ug/24H	micrograms per 24 hours
wt	weight

**Literature references:**

No Data

**Sources for data:**

No Data

**This MSDS summarizes Price Chemicals Pty Ltd best knowledge of the health and safety hazard information of the selected substance and how to safely handle the selected substance in the workplace however Price Chemicals Pty Ltd expressly disclaims that the MSDS is a representation or guarantee of the chemical specifications for the substance. Each user should read the MSDS and consider the information in the context of how the selected substance will be handled and used in the workplace including its use in conjunction with other substances.**