

**TASMAN CHEMICALS***"Tasman trusted products"*

# MATERIAL SAFETY DATA SHEET

## 4% BLEACH

### SECTION 1 – IDENTIFICATION

**Product Name** 4% BLEACH

**Recommended Use** CHLORINE BLEACH

**Supplier** TASMAN CHEMICALS PTY LTD  
**ACN :** 005 072 659  
**Street Address** 1-7 Bell Grove, Braeside ,  
Victoria 3195 AUSTRALIA

**Telephone Number** (03) 9587 6777  
**Facsimilie** (03) 9587 5255  
**Email** taschem@taschem.com.au  
**Website** www.tasmanchemicals.com.au

**Emergency Telephone Number** 1 800 334 556

### SECTION 2 – HAZARDS IDENTIFICATION

**Hazardous according to criteria of Safe Work Australia.**

**4% Bleach** is not classified as a **Dangerous** Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Hazard Category : Xi (Irritant)

#### Risk Phrases

R31 Contact with acids liberates toxic gas  
R36/38 Irritating to skin and eyes

#### Safety Phrases

S1/2 Keep locked up and out of reach of children  
S26 In case of contact with eyes, rinse immediately with plenty of water and contact a Doctor or the Poisons Information Centre.  
S28 Avoid contact with skin, wash immediately with plenty of soap suds  
S37/39 Wear suitable gloves and eye/face protection  
S45 In case of accident or if you feel unwell, seek medical advice immediately ( show the label wherever possible )  
S50 Do not mix with acids  
S61 Avoid release to the environment. Refer to special instructions/Material Safety Data Sheets.

### SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS Number</u>	<u>Proportion (%m/m)</u>
Water	7732-18-5	H
Sodium Hypochlorite	7681-52-9	H
<b>VH&gt;60% H&gt;30-60% M=10-30%</b>	<b>L=&lt;10%</b>	

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Prepared By :  
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## SECTION 4 – FIRST AID MEASURES

### First Aid

- Swallowed:** Immediately rinse mouth with water. If swallowed DO NOT induce vomiting. Give a 1-3 glasses of water to drink. If vomiting occurs, place victim head lower than hips to prevent vomiting entering lungs. Seek immediate medical assistance or contact the Poisons Information Centre immediately.
- Eye:** If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
- Skin:** If spilt on large areas of skin or hair, immediately drench with running water and remove clothing. Continue to wash skin and hair with plenty of water (and soap if material is insoluble) until advised to stop by the Poisons Information Centre or a doctor.
- Inhaled** Remove victim from further exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical attention if effects persist.

### Advice to Doctor

Treat symptomatically. Can cause corneal burns.

## SECTION 5 – FIRE FIGHTING MEASURES

- Specific Hazards:** Non-combustible material.
- Fire-fighting advice:** Decomposes on heating emitting toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.
- Suitable Extinguishing Media:** Not combustible, however, if material is involved in a fire use: Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

### Spills

Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Wash area down with excess water. If contamination of sewers or waterways has occurred advise local emergency services.

## SECTION 7 – HANDLING AND STORAGE

- Handling advice:** Avoid skin and eye contact and breathing in vapour, mists and aerosols. Keep out of reach of children.
- Storage advice:** Store in cool place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use – check regularly for leaks. This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational Exposure Limits:

No value assigned for this specific material by the National Occupational Health and Safety Commission. However, Exposure Standard(s) for decomposition product(s):

Chlorine: Peak Limitation = 3 mg/m<sup>3</sup> (1 ppm)

As published by the National Occupational Health and Safety Commission.

Peak Limitation - a ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes. These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

### Engineering Control Measures:

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. If inhalation risk exists: Use with local exhaust ventilation or while wearing air supplied mask. Keep containers closed when not in use.

### Personal Protective Equipment:

Wear overalls, face shield, elbow-length impervious gloves, splash apron and rubber boots. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

If risk of inhalation exists, wear air supplied respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid

**Odour:** Slight Chlorine

**Specific Gravity:** 1.08 @20°C

**Flammability Limits (%):** Not applicable

**% Volatile by Volume:** Not available

**Melting Point/Range (°C):** Not available

**pH:** 12.5 (1% w/w)

**Colour:** Pale yellow

**Solubility:** Miscible in water.

**Flash Point (°C):** Not applicable

**Autoignition Temperature (°C):** Not applicable

**Solubility in water (g/L):** Complete

**Decomposition Point (°C):** Not available

**Viscosity:** Not available

## SECTION 10 – STABILITY AND REACTIVITY

**Stability** Incompatible with acids, metals, metal salts, reducing agents, peroxides, and ethylene diamine tetraacetic acid.

**Reactivity** Corrosive to aluminium, zinc and tin, liberating flammable hydrogen gas. Absorbs carbon dioxide from air. Reacts exothermically on dilution with water.

## SECTION 11 – TOXOLOGICAL INFORMATION

### Health Effects

No adverse health effects expected if the material is handled in accordance with the Material Safety Data Sheet. Symptoms that may arise if the material is mishandled are:

### Acute Effects

**Swallowing:** Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.

**Eye:** A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.

**Skin:** Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns.

**Inhaled:** Breathing in mists or aerosols may produce respiratory irritation. Delayed (up to 48 hours) fluid build up in the lungs may occur.

### **Chronic Effects**

Principal routes of exposure are by accidental skin or eye contact  
Prolonged or repeated skin contact may have a corrosive action on human tissues

### **Long Term Effects:**

No information available for the product.

### **Toxicological Data:**

No LD50 data available for the product. For the constituent SODIUM HYPOCHLORITE:  
Oral LD50 (mice): 5800 mg/kg EYES: Moderate irritant (rabbit).

## **SECTION 12 – ECOLOGICAL INFORMATION**

Avoid contaminating waterways. Spills should be contained, absorbed by sand or earth and placed in sealed plastic or epoxy-lined drums for disposal

**Environmental fate, persistence and degradation:** This material is biodegradable.

48hr LC50 (fish): 0.07 - 5.9 mg/L.

**Terrestrial toxicity:** Expected to be harmful to terrestrial species.

## **SECTION 13 – DISPOSAL CONSIDERATIONS**

Refer to Waste Management Authority. Dispose of material through a licensed waste contractor.  
Decontamination and destruction of containers should be considered.

## **SECTION 14 – TRANSPORT INFORMATION**

Not Classified as a Dangerous Good by the Criteria of the Australian Dangerous Good Code

Proper Shipping Name :	Not applicable	UN Number :	Not applicable
Dangerous Goods Class :	Not applicable	Subsidiary Risk :	Not applicable
Hazchem Code :	Not applicable	Packing Group :	Not applicable

## **SECTION 15 – REGULATORY INFORMATION**

**Classification** Based upon information, classified as hazardous according to criteria of Safe Work Australia

**Poisons Schedule** Schedule 5

## **SECTION 16 – OTHER INFORMATION**

Contact Points

<b><u>Organisation</u></b>	<b><u>Location</u></b>	<b><u>Telephone</u></b>	<b><u>Ask For</u></b>
Tasman Chemicals Pty Ltd	Braeside, Victoria, Australia	(03) 9587 6777	Technical Manager

Poisons Information Centre 13 1126

MSDS are updated frequently. Please ensure that you have a current copy.

*This MSDS summarises our best knowledge of the health and safety hazard information of the product; how to safely handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Tasman Chemicals Pty Ltd. Our responsibility for products sold are subject to our standard terms and conditions, a copy of which appears on all invoices. It is also available on request. 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 including good industrial hygiene.*