



MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

Product Name 4% BLEACH **H11**

Recommended Use CHLORINE BLEACH

Supplier TASMAN CHEMICALS PTY LTD
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Street Address 1-7 Bell Grove, Braeside , Victoria 3195 AUSTRALIA

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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
VH>60% H>30-60% M=10-30%	L=<10%	

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/m³ (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

<u>Organisation</u>	<u>Location</u>	<u>Telephone</u>	<u>Ask For</u>
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.