BLEACH 4%

Section 1. Identification

Product identifier: **Bleach 4%** **Product Code:** BLCH

Other means of identification: N/A

Recommended use and restrictions on use: Whitening and sanitizing agent. Use in accordance with the directions on product label.

Supplier: True Blue Chemicals

Street Address: 2/1 Endeavour Road Caringbah NSW 2229

Postal Address: PO Box 334 Caringbah NSW 1495

Phone No: 1800 635 746 **Fax No:** 02 9540 1983

Internet: www.truebluechemicals.com.au

Emergency Phone No - 13 11 26 - Poisons Information Centre

Section 2. Hazards Identification

Classified as hazardous according to the criteria of Safe Work Australia (SWA).

Not classified as dangerous goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

GHS Classification

Serious Eye Damage/Irritation – Category 1

Skin Corrosion/Irritation – Category 2

Signal Word

DANGER

Hazard Statements

Causes serious eye damage

Causes skin irritation

Pictograms

Precautionary Statements

Wash hands thoroughly after handling.

Wear protective gloves and eye/face protection.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice.

Take off contaminated clothing and wash before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call the POISONS INFORMATION CENTRE (13 11 26 - Australia only) or a doctor.

Section 3. Composition and Information on Ingredients

Chemical Name	CAS Number	Percentage (%)
Sodium hypochlorite	7681-52-9	1 - 5
Other ingredients determined not to be hazardous or below concentration cut-off		100

Section 4. First Aid Measures

Swallowed: DO NOT induce vomiting. Give plenty of water to drink. Get medical attention.

Eye Contact: Rinse with plenty of water for at least 15 minutes holding eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist seek medical attention.

Skin Contact: Wash skin with plenty of water. Remove contaminated clothing and wash before reuse.

Inhalation: Move victim to fresh air, if symptoms develop, seek medical advice.

Symptoms caused by exposure: May experience burning sensation, shortness of breath, headache, nausea and vomiting.

Medical attention and special treatment: No special treatment required. Treat symptomatically.

Section 5. Fire Fighting Measures

Suitable extinguishing equipment:
Use extinguishing media suited to the materials that are burning; eg: dry chemical, CO_2 or water spray.

Specific hazards arising from the chemical:
Small amounts of chlorine gas may be produced in the case of fire.

Special protective equipment and precautions for fire fighters:
Firefighters should wear full protective clothing including self-contained breathing apparatus & chemical splash suit. Ensure no spillage enters drains or water courses. Remove from the vicinity containers not involved in the fire.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:
Clean up spill promptly to avoid accidents. Wear protective equipment (see Section 8) to prevent skin & eye contamination & inhalation of mists and vapours. Stop leak if safe to do so. Ensure adequate ventilation.

Environmental precautions:
Do not wash into drains. If contamination of sewers or waterways has occurred, advise local emergency services.

Methods and materials for containment and cleaning up:
For small spills contain using sand or soil – prevent run off into drains or waterways. For large spills notify Emergency Services.

Section 7. Handling and Storage

Precautions for safe handling:
Avoid contact with the skin and the eyes. When using, do not eat, drink or smoke. Wash thoroughly after handling. Wash contaminated clothing before reuse. Do not mix with acids.

Conditions for safe storage, including incompatibilities
Store in a cool, well ventilated place out of direct sunlight. Store away from strong acids and strong oxidisers. Keep containers closed at all times – check regularly for spills.

Section 8. Exposure Controls and Personal Protection

National Exposure Standards: None of the components have an established Occupational Exposure Limit (Source: Safe Work Australia – Workplace Exposure Standards For Airborne Contaminants).

Engineering Controls:
Natural ventilation should be adequate under normal use conditions. Avoid generating and inhaling mist and vapour. Keep containers closed when not in use.

Individual Protection Measures:

Eye and face protection	Safety glasses or chemical resistant goggles should be worn to prevent eye contact.
Skin protection	Wear rubber gloves to prevent skin contact. Replace gloves immediately if signs of degradation are observed.

Respiratory protection	Not normally needed. If significant vapours or mists are generated, use an appropriate respirator in accordance with AS/NZS 1715 and AS/NZS 1716.

Section 9. Physical and Chemical Properties

Appearance:	Liquid	**Colour:**	Colourless to pale yellow
Odour:	Chlorine	**Boiling Point (˚C):**	Not established
Vapour Pressure:	Not established	**Specific Gravity:**	1.10
Flashpoint (ºC):	Not flammable	**Flammability:**	Not flammable
Water Solubility:	Complete	**pH:**	10.0 – 11.0
Auto-ignition Temperature:	Not flammable	**Viscosity:**	Not established
Relative Density:	Not established	**Evaporation Rate:**	Not established
Vapour Pressure	Not established	**Melting Point/Freezing Point(˚C):**	Not established
Partition Coefficient: n-octanol/water	Not established	**Upper/Lower Flammability or Explosive Limits:**	Not flammable

Section 10. Stability and Reactivity

Reactivity: Not reactive.

Chemical Stability: Stable under normal ambient storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Avoid high temperatures (store below 30ºC) and direct sunlight. Protect against physical damage.

Incompatible Materials: Do not mix with other chemicals. Incompatible with strong acids, ammonium compounds, organic chemicals and chemical compounds, hydrogen peroxide, strong oxidisers, and metals such as copper, nickel, cobalt, iron.

Hazardous Decomposition Products: Chlorine gas.

Section 11. Toxicological Information

Information on Route of Exposure

Acute Toxicity:

Ingestion: Swallowing in small amounts is unlikely to cause any adverse effects. Larger doses may cause gastro-intestinal irritation, nausea and vomiting.

Eye Contact: No effects known.

Skin Contact: No effects known.

Inhalation: No effects known.

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Causes serious eye damage.

Respiratory or Skin Sensitisation: Not classified.

Germ Cell Mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (STOT) - Single Exposure: Not classified.

Specific Target Organ Toxicity (STOT) - Repeated Exposure: Not classified.

Aspiration Hazard: Not classified.

Immediate, Delayed and Chronic Health Effects From Exposure: May experience burning sensation, shortness of breath, headache, swallowing large doses is likely to cause gastro-intestinal irritation, nausea and vomiting.

Other Information: None known.

Section 12. Ecological Information

Ecotoxicity: No test data available.

Persistence and Degradability: Expected to be readily biodegradable.

Bioaccumulative Potential: Not expected to bioconcentrate.

Mobility in Soil: Negligible sorption to soil/sediment, rapid migration to ground water (Estimated Log K_{OC} value (EpiSuite KOCWIN): < 1.5).

Other Adverse Effects: None known.

Section 13. Disposal Considerations

Disposal Method: Should this product become waste, it is not considered as a hazardous waste. Recycle or dispose of containers and material through a licensed waste third party, in accordance with local regulations. Do not re-use empty containers. Refer to State/Territory Land Waste Management Authority for specific disposal methods.

Section 14. Transport Information

Road and Rail Transport: Not classified as Dangerous Goods according to the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

UN Number	Not applicable
Proper Shipping Name	Not applicable
Technical Name	Not applicable
Transport Hazard Class	Not applicable
Packing Group	Not applicable
Environmental Hazards for Transport purposes	Not applicable
Special Precautions for User	Not applicable
Additional Information	Not applicable
Hazchem Code or Emergency Action Code	Not applicable

Section 15. Regulatory Information

NICNAS: All ingredients are listed on the Australia Inventory of Chemical Substances (AICS).

Poisons Schedule (SUSMP): None allocated.

Section 16. Other Information

This information is provided to the best of our knowledge and belief, accurate as of the last revision date. It is provided in good faith and relates to the specific materials designated. True Blue Chemicals assumes no liability or responsibility for loss or damage resulting from improper use or handling of our products from incompatible product combinations or from failure to follow usage directions. This document remains the property of True Blue Chemicals Pty Ltd. Alterations are not permitted without prior written authorisation from True Blue Chemicals Pty Ltd.

Glossary:

Peak limitation means a maximum or peak airborne concentration of a substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes.

Log Koc Adsorption Classifications

> 4.5 Very strong sorption to soil / sediment, negligible migration to ground water
3.5 - 4.4 Strong sorption to soil / sediment, negligible to slow migration to ground water
2.5 - 3.4 Moderate sorption to soil / sediment, slow migration to ground water
1.5 - 2.4 Low sorption to soil / sediment, moderate migration to ground water
< 1.5 Negligible sorption to soil / sediment, rapid migration to ground water

References

1. Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice - Safe Work Australia
2. Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG)

3. Workplace Exposure Standards for Airborne Contaminants – Safe Work Australia
4. Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)
5. Hazardous Chemicals Information System (HCIS) – Safe Work Australia
6. Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
7. European Chemicals Agency (http://echa.europa.eu/)
8. Ansell Chemical Resistance Guide – Permeation & Degradation data

Prepared By: Sally Fan – Regulatory Compliance Officer
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