



## CLEANKILL

**Section 4. First Aid Measures**

- Swallowed:** Rinse mouth. DO NOT induce vomiting. Give water or milk to drink. Immediately call the POISONS INFORMATION CENTRE (13 11 26 Australia only).
- Eye Contact:** Immediately rinse with plenty of water for at least 15 minutes holding eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Call POISONS INFORMATION CENTRE (13 11 26 Australia only) for advice.
- 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:** Irritating and burning sensation after contact.
- Medical attention and special treatment:** No specific treatment. Treat symptomatically.

**Section 5. Fire Fighting Measures**

- Suitable extinguishing equipment:**  
Use extinguishing media suited to the materials that are burning; eg: dry chemical, CO<sub>2</sub> or water fog.
- Specific hazards arising from the chemical:**  
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. Remove from the vicinity containers not involved in the fire. Ensure no spillage enters drains or water courses.

**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 and eye contamination and inhalation of mists and vapours. Stop leak if safe to do so. Ensure adequate ventilation.
- Environmental precautions:**  
Ensure no spillage enters drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or the local Council.
- Methods and materials for containment and cleaning up:**  
Cover with damp absorbent material (inert material, sand or soil). Sweep up, but avoid generating dust. Collect and seal in properly labelled drums for disposal.

**Section 7. Handling and Storage**

- Precautions for safe handling:**  
Observe good personal hygiene practices and recommended procedures. Wash hands thoroughly after handling. Avoid contact with eyes, skin and clothing. Do not mix with acids as contact with acid liberates toxic gas.
- Conditions for safe storage, including incompatibilities**  
Store in a cool, dry, well-ventilated place and 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:** An occupational exposure standard (OEL) has not been established for the product. The following components have been listed with an OEL as per Safe Work Australia - Workplace Exposure Standards for Airborne Contaminants.

Ingredient Name	CAS No	TWA (ppm)	TWA (mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )
Sodium Hydroxide	1310-73-2	-	2 Peak	-	-
Sodium hypochlorite	7981-52-9	1 (Peak limitation)	3 (Peak limitation)	-	-

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**Engineering Controls:**

Natural ventilation should be adequate under normal use conditions. Avoid generating and inhaling mists and vapours. 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/NSZ 1716.

**Thermal hazards** Refer to Section 5.

**Section 9. Physical and Chemical Properties**

<b>Appearance:</b>	Liquid	<b>Colour:</b>	Clear
<b>Odour:</b>	Chlorine	<b>Boiling Point:</b>	Not available
<b>Vapour Pressure:</b>	Not available	<b>Specific Gravity:</b>	1.17 - 1.19
<b>Flashpoint (°C):</b>	Not available	<b>Flammability:</b>	Not available
<b>Water Solubility:</b>	Complete	<b>pH:</b>	13.0 - 14.0
<b>Auto-ignition Temperature:</b>	Not available	<b>Viscosity:</b>	Not available
<b>Relative Density:</b>	Not available	<b>Evaporation Rate:</b>	Not available
<b>Vapour Pressure</b>	Not available	<b>Melting Point/Freezing Point</b>	Not available
<b>Partition Coefficient:</b> n-octanol/water	Not available	<b>Upper/Lower Flammability or Explosive Limits:</b>	Not available

**Section 10. Stability and Reactivity**

**Reactivity:** Reacts with acids, oxidisers, peroxides, and metal salts.

**Chemical Stability:** Stable under normal ambient storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur. Contact with acids liberates toxic chlorine gas.

**Conditions to Avoid:** Avoid high temperatures (store below 30°C). 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:** Not classified.

**Eye Contact:** Not classified.

**Skin Contact:** Not classified.

**Inhalation:** Not classified.

**Skin Corrosion/Irritation:** Corrosive. Causes severe skin burns and permanent tissue damage.

**Serious Eye Damage/Irritation:** Corrosive. Causes severe burns and eye damage.

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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, nausea and vomiting.
Other Information:	Contact with acid liberates toxic chlorine gas. Acute exposures to chlorine gas may result in symptoms of acute airway obstruction including wheezing, coughing, chest tightness, and/or dyspnea.

**Section 12. Ecological Information**

Ecotoxicity:	No data available
Persistence and Degradability	Product is expected to be readily biodegradable
Bioaccumulative Potential	Not expected to bioaccumulate
Mobility in Soil	Low sorption to soil / sediment, moderate migration to ground water (Estimated Log $K_{OC}$ value (EpiSuite KOCWIN): approx. -2.51)
Other Adverse Effects	None known.

**Section 13. Disposal Considerations**

Disposal Methods	Refer to State/Territory Land Waste Management Authority. Dispose of material through a licensed waste third party, in accordance with local regulations.
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**Section 14. Transport Information**

Classified as a Dangerous Good by the criteria of the Australian Dangerous Goods Code for transport by Road and Rail.

UN Number	UN1791
Proper Shipping Name	HYPOCHLORITE SOLUTION
Technical Name	-
Transport Hazard Class	8
Packing Group	II
Environmental Hazards	None
Special Precautions for User	None
Additional Information	None
Hazchem Code	2X

**Section 15. Regulatory Information**

NICNAS	All substances are listed on the Australian Inventory of Chemical Substances (AICS).
Poisons Schedule (SUSMP)	Schedule 5 - CAUTION

**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.

## CLEANKILL

**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 K<sub>oc</sub> 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 Substances Information System (HSIS) - 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

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