

Infosafe No™ VAR93	Issue Date : November 2024	ISSUED by MILESTON
Product Name <b>CHLOROKLEEN</b>		

## Section 1 - Identification

<b>Product Identifier</b>	CHLOROKLEEN
<b>Company Name</b>	Milestone Chemicals Pty. Ltd. (ABN 85115166357)
<b>Address</b>	115 Northern Road West Heidelberg VIC 3081 AUSTRALIA
<b>Telephone/Fax Number</b>	Tel: (03) 9450 4555 Fax: (03) 9457 5518
<b>Emergency Phone Number</b>	(03) 9450 4555 Mon-Fri 8am - 6pm
<b>Recommended use of the chemical and restrictions on use</b>	Used for the cleaning in food processing plants to remove blood, fats and protein deposits.

## Section 2 - Hazard(s) Identification

<b>GHS Classification of the Substance/Mixture</b>	Skin corrosion/irritation: Category 1B
<b>Signal Word</b>	DANGER
<b>Hazard Statement (s)</b>	AUH031 Contact with acids liberates toxic gas. H402 Harmful to aquatic life. H314 Causes severe skin burns and eye damage.
<b>Pictogram (s)</b>	Corrosion



<b>Precautionary Statement – Prevention</b>	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash contaminated skin thoroughly after handling. P280 (f) Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary Statement – Response</b>	P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P363 Wash contaminated clothing before reuse.
<b>Precautionary Statement – Storage</b>	P405 Store locked up.
<b>Precautionary Statement – Disposal</b>	P501 Dispose of contents/container: Recycle packaging by replacing cap and returning clean containers to recycler or designated collection point.
<b>Precautionary Statement – General</b>	P102 Keep out of reach of children. P103 Read carefully and follow all instructions.

## Section 3 - Composition and Information on Ingredients

Ingredients	Name	CAS	Proportion
	Sodium hydroxide	1310-73-2	1-10 %
	Sodium hypochlorite	7681-52-9	6.2%
	Ingredients determined not to be hazardous, including water.		to 100%

## Section 4 - First Aid Measures

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<b>Inhalation</b>	Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through a face mask. If breathing has stopped apply artificial respiration at once. In event of cardiac arrest, apply external cardiac massage. seek medical advice.
<b>Ingestion</b>	Immediately rinse mouth with water. Do NOT induce vomiting. Give a glass of water to be taken slowly. Seek immediate medical attention.
<b>Skin</b>	Remove all contaminated clothing and immediately wash affected area with plenty of water. If swelling, redness, blistering or irritation occurs, seek medical advice.
<b>Eye</b>	Hold eyes open and flood with running water for at least 15 minutes, bathe eyes with soothing eyedrops or sterile saline, urgently seek medical attention. Transport to hospital or medical centre.
<b>First Aid Facilities</b>	Eye wash station, safety shower and normal washroom facilities.
<b>Advice to Doctor</b>	Product is a solution of sodium hydroxide with sodium hypochlorite and surfactants. Corrosive to living tissues. Inhalation may be followed by pulmonary oedema. Contact Poisons Information Centre.

## Section 5 - Firefighting Measures

<b>Suitable Extinguishing Media</b>	Use dry chemical, carbon dioxide, foam or water fog, appropriate to surrounding fire.
<b>Hazards from Combustion Products</b>	Chlorine, water vapour, toxic fumes.
<b>Special Protective Equipment for Firefighters</b>	Self-contained breathing apparatus (SCBA) required for fire-fighting personnel. If possible to do so safely, shut off fuel to fire. Use water spray to spray to cool fire-exposed surfaces and to protect personnel.
<b>Specific Hazards Arising from the Chemical</b>	If tanks, drums or containers of this material are heated, they may rupture and project corrosive materials over a wide area. May react violently with strong acids. May react vigorously or violently with reducing agents or peroxides. Contact with acids will generate chlorine, a poisonous gas. Contact with some metals will generate hydrogen, a flammable gas. Contact with ammonium salts will generate ammonia, a poisonous gas.
<b>Hazchem Code</b>	2X
<b>Other Information</b>	Avoid contact with coloured fabric as Chlorine may bleach colour out. May give off dangerous gas if mixed with other products.

## Section 6 - Accidental Release Measures

<b>Spills &amp; Disposal</b>	Spillages are slippery. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination. Contain using sand or soil - prevent run off into drains and waterways. Use absorbent (soil, sand, vermiculite or other inert material). Collect and seal in properly labelled containers for disposal. Wash area down with excess water. Caution - heat may be evolved.
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## Section 7 - Handling and Storage

<b>Conditions for safe storage, including any incompatibilities</b>	Store in a well ventilated place, out of reach of children. Large quantities should be stored in a banded dangerous goods store. Store in original container. Keep container tightly closed. May slowly lose chlorine on long storage. Keep away from acids, peroxides, reducing agents, combustible materials, and ammonium salts. Keep away from metals and metal salts. Prevent contact with aluminium, tin, zinc or galvanised iron. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.
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## Section 8 - Exposure Controls and Personal Protection

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Occupational Exposure Limit (OEL) Values	<u>Name</u>	STEL		TWA		<u>Footnote</u>
		<u>mg/m3</u>	<u>ppm</u>	<u>mg/m3</u>	<u>ppm</u>	
	Sodium hydroxide			2		Peak limitation
<b>Engineering Controls</b>	Corrosive liquid. Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate unless the material is heated, reacted or otherwise changed in some type of chemical reaction, then the use of a local exhaust ventilation system is recommended.					
<b>Personal Protective Equipment</b>	Prevent contact with the eyes. Avoid contact with the skin. Avoid breathing vapours. Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:- Goggles, face shield or safety glasses Gloves, neoprene or nitrile rubber or plastic Plastic apron, sleeves and boots. Respirators in accordance with AS/NZS 1715/1716. The use of a P1 dust mask (disposable) or with replaceable filters is recommended. Filter capacity and respirator type depends on exposure levels and type of contaminant. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended. Always maintain a high level of personal hygiene when using cleaning chemicals. That is wash hands before eating, drinking, smoking or using the toilet.					

## Section 9 - Physical and Chemical Properties

<b>Form</b>	Liquid
<b>Appearance</b>	Thick pale amber liquid
<b>Odour</b>	Chlorine odour
<b>Boiling Point</b>	No data
<b>Solubility in Water</b>	Miscible with water in all proportions.
<b>Specific Gravity</b>	1.1
<b>pH</b>	12.5-13.5
<b>Flash Point</b>	None
<b>Flammability</b>	Non flammable.
<b>Other Information</b>	Very alkaline. Will react violently with acids, producing heat and generating chlorine gas. Oxidiser. Contact with combustible materials may cause fire. Will react violently with reducing agents. Readily absorbs carbon dioxide from the air. Will react with aluminium, tin and zinc, generating hydrogen, a flammable gas. May react with peroxides and metal salts. Contact with ammonium salts may generate ammonia gas.

## Section 10 - Stability and Reactivity

<b>Chemical Stability</b>	Stable under normal use conditons.
<b>Conditions to Avoid</b>	Heat, flames, ignition sources and incompatibles.
<b>Incompatible Materials</b>	Acids, oxidizing agents, ammonium salts, soft metals.
<b>Hazardous Decomposition Products</b>	Contact with aluminium, tin, zinc or galvanised iron can generate hydrogen, a flammable gas. Contact with ammonium compounds can generate ammonia, a poisonous gas. Will react vigorously or violently with acids, generating chlorine gas. May form toxic oxides of Chlorine if involved in a fire.

## Section 11 - Toxicological Information

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<b>Toxicology Information</b>	No adverse health effects are expected, if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are:
<b>Acute Toxicity - Oral</b>	LD 50 : Sodium hydroxide 500 mg/kg oral, rabbit Sodium hypochlorite 5800 mg/kg oral, mouse
<b>Ingestion</b>	Can be fatal. Corrosive. Causes burns to mouth and throat, nausea, vomiting, abdominal pains and diarrhoea (occasionally bloody). Can also cause swelling of the larynx and suffocation, perforation of stomach and intestines with constrictive scarring, heart failure and coma.
<b>Inhalation</b>	Toxic if inhaled. Will cause severe irritation to the nose, throat and respiratory system with effects including: Dizziness, headache, coughing, loss of co-ordination, chest pains, respiratory paralysis and or failure.
<b>Skin</b>	Corrosive to skin - may cause skin burns, with effects including; Redness, blistering, localised pain, dermatitis and deep burns. Skin contact often does not cause immediate pain, thus care should be taken to avoid contamination of gloves and footwear. Repeated or prolonged contact may lead to irritant contact dermatitis.
<b>Eye</b>	Corrosive to eyes; contact can cause conjunctivitis, corneal burns and ulceration, which can result in permanent injury and possible loss of sight.
<b>Chronic Effects</b>	Long term, low level exposure can lead to irritation of skin, lungs, nose, throat and mouth.

## Section 12 - Ecological Information

<b>Ecotoxicity</b>	This product is corrosive and poisonous in large concentrations, particularly in the aquatic environment.
<b>Persistence and Degradability</b>	Readily Biodegradable.
<b>Mobility</b>	Readily dilutes with water.
<b>Information on Ecological Effects</b>	This substance may cause long term adverse effects in the aquatic environment.
<b>Environmental Protection</b>	Avoid contaminating waterways, drains, sewers, or ground.

## Section 13 - Disposal Considerations

<b>Waste Disposal</b>	Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor. Normally suitable for disposal by approved waste disposal agent.
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## Section 14 - Transport Information

<b>Transport Information</b>	Classified as a Class 8 Dangerous Good. Dangerous Goods of Class 8 Corrosives are incompatible in a placard load with any of the following: - Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids and Class 7. Store away from acids.
<b>ADG UN Number</b>	1791
<b>ADG Proper Shipping Name</b>	HYPOCHLORITE SOLUTION
<b>ADG Transport Hazard Class</b>	8
<b>ADG Packing Group</b>	III
<b>Hazchem Code</b>	2X
<b>EPG Number</b>	8A1
<b>IERG Number</b>	37

## Section 15 - Regulatory Information

<b>Poisons Schedule</b>	S6
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**Australia (AICS/AIIC)**      All components listed.

## Section 16 - Any Other Relevant Information

**Date of Preparation**      3/11/2024

**Literature References**      Preparation of Safety Data Sheets for hazardous Chemicals Code of Practice  
Standard for the Uniform Scheduling of Medicines and Poisons  
Australian Code for the Transport of Dangerous Goods by Road & Rail  
Globally Harmonised System of classification and labelling of chemicals GHS7

**Signature of Preparer/Data Service**      Technical manager Tel: (03) 9450 4555

**Technical Contact Numbers**      Emergency Advice All Hours:  
Chief Chemist Tel: (03) 9450 4555 Mon-Fri 8am - 6pm  
Poisons Information Centre: 13 11 26 - 24hrs

**Other Information**      This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the Workplace. Please refer to the technical datasheet (Instructions for use), and the label on the drum. The company cannot anticipate or control the individual working conditions encountered and so each user should read this SDS carefully, and if in doubt ring the Contact Point Number given below.  
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