

VIRTUE

Chlorokleen Liquid

Safety Data Sheet

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1. SUBSTANCE IDENTIFICATION/ PREPARATION AND COMPANY DETAILS

Product Name: CHLOROKLEEN LIQUID

Recommended use: Alkaline, Chlorine containing Cleaning Agent

Supplier: Stelco Chemicals International Pty Ltd
ACN: 151 834 347

Street Address: 46-48 Henderson Road
 Rowville 3178
 Australia

Telephone: +61 3 9757 3100
Facsimile: +61 3 9763 8243

Emergency Telephone Number: 0412 318 882

2. HAZARDS IDENTIFICATION

Hazardous according to criteria of Safe Work Australia. HAZARDOUS SUBSTANCE

GHS classification:

Skin corrosion/irritation, Category 2, H315)
 Serious eye damage/Eye irritation, Category 1, H318)
 Hazardous to the aquatic environment: Acute hazard, Category 1, H400)

Signal word: Danger



Hazard statements:

EUH031: Contact with acids liberate toxic gas.
H318: Causes serious eye damage.
H400: Very toxic to aquatic life.

Precautionary statements:

P102: Keep out of reach of children.
P273: Avoid release to the environment.
P280: Wear protected gloves/protective clothing/eye protection/face protection.
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 or doctor/physician.
P391: Collect spillage.

Not Classified as Dangerous Goods by the criteria of the Australian Dangerous Code (ADG Code) for transport by road or rail. Refer to relevant regulations for storage and transport requirements.



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Poisons Schedule (Aust.): S5

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Proportion
Sodium hypochlorite	7681-52-9	> 5%
Potassium Hydroxide	1310-58-3	3 - 5%
Non-ionic Surfactant	61788-90-7	< 10%
Non-Hazardous Components		> 60%

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor

Ingestion:	Rinse mouth with water. Give water to drink. Do NOT induce vomiting. Seek medical assistance.
Eye contact:	Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Seek immediate medical assistance.
Skin contact:	Wash contaminated skin with plenty of water. Remove contaminated clothing and wash before reuse. If irritation occurs seek medical advice.
Inhalation:	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. Seek medical advice if effects persist.
Notes to physician:	Treat symptomatically. Can cause corneal burns. Delayed pulmonary oedema may result.

5. FIRE-FIGHTING MEASURES

Specific Hazards:	Non-combustible material.
Fire fighting further advice:	Not combustible. Decomposes on heating, liberating toxic fumes including those of chlorine. If safe to do so, remove containers from path of fire. Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of decomposition.
Suitable extinguishing media:	Not combustible, however, if involved in a fire use: Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES



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Clear area of unprotected personnel. Wear protective equipment to prevent skin and eye contamination and inhalation of vapour. If contamination of sewers or waterways has occurred advise local emergency services.

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

7. HANDLING AND STORAGE

This material is Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations

Storage: Store in a cool (below 40C), well ventilated, dry place out of direct sunlight. Store away from acids and reducing agents. Store away from foodstuffs.

Handling: Avoid skin and eye contact and breathing in of vapours. Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits: No value assigned for this specific material by the National Occupational Health and Safety Commission, However, Exposure Standards for constituents:

Potassium Hydroxide: Peak Limitation = 2mg/m³

Chlorine: Peak Limitation = 3mg/m³

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 as low a level as workable.

Engineering measures: Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. Use with local exhaust ventilation. Keep containers closed when not in use.

Personal protection equipment: The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors. PPE Guide: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES(S), FACE SHIELD, APRON

Avoid skin and eye contact and inhalation of vapour. Wear overalls, chemical goggles and impervious gloves. If risk of inhalation exists, wear air supplied respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or reusing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour : Liquid, pale yellow with chlorine odour.



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Solubility : Miscible in water.
Specific Gravity (20C) : 1.075
pH (1% aq. soln.) : > 10.5
Solubility in water (g/L) : Miscible

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. The amount of chlorine diminished with time.

Conditions to avoid: Avoid contact with foodstuffs. Avoid contact with acids

Incompatible materials: Incompatible with acids, metals, metal salts, ethylene diamine tetra acetic acid.

Hazardous decomposition Products: Chlorine

Hazardous Reactions: None known

11. TOXICOLOGICAL INFORMATION

Main symptoms: No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled are:

Ingestion: Swallowing can result in vomiting, diarrhoea, abdominal pain and chemical burns of the gastrointestinal tract

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

Skin contact: Contact with the skin will result in severe irritation. Corrosive to skin – may cause skin burns.

Inhalation: Breathing in mists or aerosols may produce respiratory irritation.

Long term effects: No information available for product.

Acute toxicity / Chronic toxicity: No LD50 data available for product.
For the sodium hypochlorite: Oral LD50 (mice): 5800 mg/kg. EYES (rabbit): moderate irritant. For the Potassium Hydroxide: SKIN: Severe irritant (human) EYES (rabbit): Severe irritant.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Avoid contaminating waterways.

Persistence/degradability: This material is biodegradable

Aquatic toxicity: Very toxic to aquatic organisms



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13. DISPOSAL CONSIDERATIONS

Refer to State Land Waste Management Authority. Decontamination and destruction of containers should be considered.

14. TRANSPORT INFORMATION

Not Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road or rail.

Marine Transport: Not Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG) for transport by sea

Air Transport: Not Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) for transport by air.

15. REGULATORY INFORMATION

Hazardous according to criteria of Safe Work Australia; HAZARDOUS SUBSTANCE

Poisons Schedule (Aust.): S5

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

(1) Supplier Safety Data Sheet.

This Material Safety Data sheet has been prepared by Stelco Chemicals International Pty Ltd

Issue Date: 11th July 2016

Reason for Issue: first version

This MSDS summarises at the date of issue our best knowledge of the health and safety information of the product, and in particular how to safely handle and use the product in the workplace. As each workplace is different each user must, prior to use, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification of further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.