

Safety Data Sheet

according to WHS Regulations

Printing date 20.11.2019

Revision: 20.11.2019

1 Identification

Product Name: FILTRITE LIQUID CHLORINE

Other Means of Identification: Mixture

Recommended Use of the Chemical and Restriction on Use:

Sanitiser (processing equipment in dairy, food and beverage industries), bleaching agent (textile industry) and sanitizing agent (water treatment).

Details of Manufacturer or Importer:

Clark Rubber
254 Canterbury Road
Bayswater VIC 3153

Phone Number: +61 3 8727 9999

Emergency telephone number: +61 3 8727 9999

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



corrosion

Skin Corrosion/Irritation 1B H314 Causes severe skin burns and eye damage.

Serious Eye Damage/Irritation 1 H318 Causes serious eye damage.



environment

Aquatic Acute 1 H400 Very toxic to aquatic life.



STOT SE 3 H335 May cause respiratory irritation.

Signal Word Danger

Hazard Statements

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

Precautionary Statements

P260 Do not breathe dusts or mists.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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/shower.

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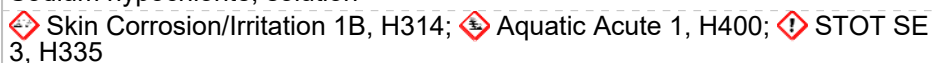
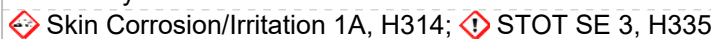
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P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national regulations.

Additional Information AUH031 Contact with acids liberates toxic gas.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

CAS: 7681-52-9	Sodium hypochlorite, solution 	10 - <30%
CAS: 1310-73-2	Sodium hydroxide 	<1%

4 First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation and delayed pulmonary oedema (fluid build up in lungs delayed up to 48 hours).

Skin Contact: Causes severe skin burns.

Eye Contact: Causes serious eye damage. Contamination of eyes can result in permanent injury.

Ingestion: Causes burns to the gastrointestinal tract leading to nausea, vomiting and diarrhoea.

5 Fire Fighting Measures

Suitable Extinguishing Media: Water fog, fine water spray, foam, carbon dioxide or dry chemical powder.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include toxic fumes.

This product is not flammable, but may burn or decompose in a fire.

Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

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Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots.

Evacuate all non-essential personnel from affected area. Do not breathe vapours.

Slippery when spilt. Avoid accidents – clean up immediately.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material.

Collect the spilt material and seal in properly labelled containers for disposal. Wash contaminated area with excess water.

7 Handling and Storage**Precautions for Safe Handling:**

Contact with acids liberates toxic gas.

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours / mists.

Food, beverages and tobacco products should not be stored or consumed where this material is in use.

Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Check regularly for leaks. Protect from heat, direct sunlight and physical damage. Keep away from acids, metals, metal salts, reducing agents and peroxides.

8 Exposure Controls and Personal Protection**Exposure Standards:****CAS: 1310-73-2 Sodium hydroxide**NES | Peak limitation: 2 mg/m³**CAS: 7782-50-5 Chlorine**NES | Peak limitation: 3 mg/m³, 1 ppm**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

Respiratory Protection:

Select respirator based on its suitability to provide adequate worker protection for given working conditions and level of airborne contamination. See Australian Standards AS/NZS 1715 and 1716 for more information.

Use air-purifying respirator when airborne chemical dust or mist may be present.

Skin Protection:

PVC, PVA, nitrile, neoprene, rubber or vinyl gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of

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the protective clothing. See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form:	Liquid
Colour:	Pale yellow-green
Odour:	Slight chlorine odour
Odour Threshold:	Not determined.
pH-Value:	12.5
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	Not applicable
Flammability:	Product is not flammable.
Auto-ignition Temperature:	Not applicable
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	Not applicable
Upper:	Not applicable
Vapour Pressure:	No information available
Relative Density:	No information available
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Miscible
Partition Coefficient (n-octanol/water):	No information available
Viscosity:	No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions:

Hazardous polymerisation will not occur.
Contact with acids liberates toxic gas.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Heat and direct sunlight.

Incompatible Materials: Acids, metals, metal salts, reducing agents and peroxides.

Hazardous Decomposition Products: Toxic fumes.

11 Toxicological Information

Toxicity:**LD₅₀/LC₅₀ Values Relevant for Classification:****CAS: 7681-52-9 Sodium hypochlorite, solution**

Oral	LD ₅₀	5,800 mg/kg (mouse)
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CAS: 1310-73-2 Sodium hydroxide

Oral	LD ₅₀	1,350 mg/kg (rat)
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Dermal	LD ₅₀	1,350 mg/kg (rat)
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Acute Health Effects**Inhalation:**

May cause respiratory irritation and delayed pulmonary oedema (fluid build up in lungs delayed up to 48 hours).

Skin: Causes severe skin burns.

Eye: Causes serious eye damage. Contamination of eyes can result in permanent injury.

Ingestion: Causes burns to the gastrointestinal tract leading to nausea, vomiting and diarrhoea.

Skin Corrosion / Irritation: Causes severe skin burns.

Serious Eye Damage / Irritation: Causes serious eye damage.

Respiratory or Skin Sensitisation: No sensitising effects known.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity: This product does NOT contain any IARC listed chemicals.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure: May cause respiratory irritation.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects: No information available

Existing Conditions Aggravated by Exposure: No information available

Additional toxicological information: No information available

12 Ecological Information

Ecotoxicity: No information available

Aquatic toxicity:

Very Toxic to aquatic life with long lasting effects.

CAS: 1310-73-2 Sodium hydroxide

EC ₅₀ /48 h	40.4 mg/l (daphnia)
LC ₅₀ /96 h	125 mg/l (mosquito fish)
	45.4 mg/l (rainbow trout)

Persistence and Degradability: This material is biodegradable.

Bioaccumulative Potential: No further relevant information available.

Mobility in Soil: No further relevant information available.

Other adverse effects: No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

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14 Transport Information

UN Number ADG, IMDG, IATA	1791
Proper Shipping Name ADG, IMDG, IATA	HYPOCHLORITE SOLUTION
Dangerous Goods Class ADG Class:	8 Corrosive substances.
Packing Group: ADG, IMDG, IATA	III
Marine pollutant:	Yes
EMS Number:	F-A,S-B
Hazchem Code:	2X
Special Provisions:	223
Limited Quantities:	5L
Packagings & IBCs - Packing Instruction:	P001, IBC03, LP01
Portable Tanks & Bulk Containers - Instructions:	T4
Portable Tanks & Bulk Containers - Special Provisions:	TP2, TP24

15 Regulatory Information

Australian Inventory of Chemical Substances:

CAS: 7681-52-9	Sodium hypochlorite, solution
CAS: 1310-73-2	Sodium hydroxide
CAS: 7732-18-5	Water

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 5

16 Other Information

Date of Preparation or Last Revision: 20.11.2019**Last Revision of MSDS:** 20.11.2014**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au

Abbreviations and acronyms:

ADG: Australian Dangerous Goods
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 LC₅₀: Lethal concentration, 50 percent
 LD₅₀: Lethal dose, 50 percent
 IARC: International Agency for Research on Cancer
 STEL: Short Term Exposure Limit
 TWA: Time Weighted Average
 NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)
 Skin Corrosion/Irritation 1A: Skin corrosion/irritation – Category 1A
 Skin Corrosion/Irritation 1B: Skin corrosion/irritation – Category 1B
 Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

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STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Data altered compared to the previous version: Section 14.

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - February 2016”

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