

# SAFETY DATA SHEET



## CHLOROSAN

### ACTICHEM PTY LTD

Catalogue number: AP720.05

Version No: 4.2.1

Issue date: 28/05/2024.

Safety Data Sheet according to WHS and ADG requirements.

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### Product Identifier

Product name	CHLOROSAN
Other names	Cleanmax® Chlorinated Foaming Detergent Chlorofoam
Actichem product code	AP720.05
Abco product code	160081
Pack size	5L
Proper shipping name	HYPOCHLORITE SOLUTION

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Chlorine based detergent, mould remover, stain remover and sanitiser
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### Details of the manufacturer/importer

	Manufacturer	Distributor
Registered company name	ACTICHEM PTY LTD	ABCO PRODUCTS
Address	11 Gamma Close, Beresfield 2322 NSW Australia	44 John Street, Bentley, WA, 6102
Telephone	(02) 4966 5516	1800 177 399
Website	www.actichem.com.au	www.abcopro.com.au
Email	info@actichem.com.au	sales@abcopro.com.au

### Emergency telephone number

Association / Organisation	Poisons Information Centre
Emergency telephone numbers	13 1126
Other emergency telephone numbers	Not Available

## SECTION 2 HAZARDS IDENTIFICATION

### Classification of the substance or mixture

HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the Model WHS Regulations and the ADG Code.

Poisons Schedule	6
GHS Classification	Serious Eye Damage Category 1, Skin Corrosion/Irritation Category 1B, STOT - SE (Resp. Irr.) Category 3. <i>Classification drawn from HCIS and ECHA C&amp;L Inventory</i>

### Label elements.

Label elements	
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SIGNAL WORD	<b>DANGER</b>
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### Hazard statement(s)

H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation
AUH031	Contact with acid liberates toxic gas

**Precautionary statement(s) Prevention**

P260	Do not breathe mist / vapours / spray.
P271	Use only outdoors or in a well-ventilated area.
P264	Wash contaminated skin thoroughly after handling
P280	Wear protective gloves / protective clothing / eye protection / face. protection

**Precautionary statement(s) Response**

P301+P310+P330+P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting
P303+P310+P361+P353	IF ON SKIN (or hair): Immediately call a POISON CENTER or doctor. Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P310+P351+P338	IF IN EYES: Immediately call a POISON CENTER or doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340+P312	IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.

**Precautionary statement(s) Storage**

P405	Store locked up
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**Precautionary statement(s) Disposal**

P501	Dispose of contents / container in accordance with local regulations
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**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS****Substances**

See section below for composition of Mixtures

**Mixtures**

CAS No	%[weight]	Name
1310-73-2	<10	<u>sodium hydroxide</u>
7782-50-5	<10 (active chlorine)	<u>sodium hypochlorite</u>
1643-20-5	<10	<u>lauryl dimethylamine oxide</u>
68585-34-2	<10	<u>sodium lauryl ether sulphate</u>

**SECTION 4 FIRST AID MEASURES****Description of first aid measures**

<b>Eye Contact</b>	If this product comes in contact with the eyes: Obtain medical advice / attention without delay Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. If necessary, transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel..
<b>Skin Contact</b>	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
<b>Inhalation</b>	If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary
<b>Ingestion</b>	Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor..

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

EYE INJURY

▶ Injury should be irrigated for 20-30 minutes.

▶ Eye injuries require saline. [Ellenhorn & Barceloux: Medical Toxicology]

**SECTION 5 FIREFIGHTING MEASURES****Extinguishing media**

<b>Extinguishing media</b>	Water spray or fog. Foam. Dry chemical powder. BCF (where regulations permit). Carbon dioxide
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**Special hazards arising from the substrate or mixture**

<b>Fire incompatibility</b>	None known
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## Advice for firefighters

Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use firefighting procedures suitable for surrounding area. <b>Do not approach containers suspected to be hot.</b> Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	Non-combustible. Not considered a significant fire risk, however containers may burn. May emit corrosive fumes.
HAZCHEM	2X

## SECTION 6 ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

Minor Spills	Flush away with copious amounts of water.
Major Spills	Wear full body protective clothing with breathing apparatus. Absorb on sand, dirt, vermiculite or similar absorbent material. Place into labeled drums and dispose of according to local government regulations. Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle.
PPE	Personal protective equipment advice is contained in Section 8 of this SDS

## SECTION 7 HANDLING AND STORAGE

## Precautions for safe handling

Safe handling	Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Avoid contact with incompatible materials. When handling, <b>DO NOT eat, drink or smoke.</b> Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling.
Other information	Store in original containers. Keep containers securely sealed. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. DO NOT store near acids, or oxidising agents No smoking, naked lights, heat or ignition sources Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers.

## Conditions for safe storage, including any incompatibilities

Suitable container	Plastic pail. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	Avoid contact with acids

## PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## Control parameters

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

## INGREDIENT DATA


Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	sodium hydroxide	sodium hydroxide	Not Available	Not Available	2 mg/m3	Not Available

## EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
sodium hydroxide	sodium hydroxide	Not Available	Not Available	Not Available
sodium hypochlorite	sodium hypochlorite	2 mg/m3	20 mg/m3	630 mg/m3

Ingredient	Original IDLH	Revised IDLH
sodium hydroxide	Not Available	Not Available
sodium hypochlorite	250 mg/m3	10 mg/m3
lauryl dimethylamine oxide	Not Available	Not Available

#### Exposure controls

<b>Appropriate engineering controls</b>	Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate. If ventilation is poor, then the use of a local exhaust ventilation system is recommended.
<b>Personal protection</b>	
<b>Eye and face protection</b>	Safety glasses with unperforated side shields may be used where continuous eye protection is desirable. Chemical goggles whenever there is a danger of the material coming in contact with the eyes; goggles must be properly fitted. Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary protection of eyes; these afforded face protection. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Lens should be removed at the first signs of eye redness or irritation. Lens should be removed in a clean environment only after workers have washed hands thoroughly.
<b>Skin protection</b>	See Hand protection below
<b>Hands/feet protection</b>	Elbow length PVC gloves When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.
<b>Body protection</b>	See Other protection below
<b>Other protection</b>	Overalls. PVC Apron. PVC protective suit may be required if exposure severe. Eyewash unit. Ensure there is ready access to a safety shower.
<b>Thermal hazards</b>	Not Available

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance</b>	Slightly viscous yellow liquid		
<b>Physical state</b>	Liquid	<b>Relative density (Water = 1)</b>	1.02
<b>Odour</b>	Chlorine	<b>Partition coefficient n-octanol / water</b>	Not Available
<b>Odour threshold</b>	Not Available	<b>Auto-ignition temperature (°C)</b>	Not Available
<b>pH (as supplied)</b>	12.5 – 13.5	<b>Decomposition temperature</b>	Not Available
<b>Melting point / freezing point (°C)</b>	Not Applicable	<b>Viscosity (cSt)</b>	Not Available
<b>Initial boiling point and boiling range (°C)</b>	Not Available	<b>Molecular weight (g/mol)</b>	Not Available
<b>Flash point (°C)</b>	Not applicable	<b>Taste</b>	Not Available
<b>Evaporation rate</b>	Not Available	<b>Explosive properties</b>	Not Explosive
<b>Flammability</b>	Not flammable	<b>Oxidising properties</b>	Not Available
<b>Upper Explosive Limit (%)</b>	Not Applicable	<b>Surface Tension (dyn/cm or mN/m)</b>	Not Available
<b>Lower Explosive Limit (%)</b>	Not Applicable	<b>Volatile Component (%vol)</b>	Not Available
<b>Vapour pressure (kPa)</b>	Not Available	<b>Gas group</b>	Not Available
<b>Solubility in water (g/L)</b>	Miscible	<b>pH as a solution (1%)</b>	Not Available
<b>Vapour density (Air = 1)</b>	Not Available	<b>VOC g/L</b>	Not Available

## SECTION 10 STABILITY AND REACTIVITY

<b>Reactivity</b>	See section 7
<b>Chemical stability</b>	Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
<b>Possibility of hazardous reactions</b>	See section 7
<b>Conditions to avoid</b>	See section 7
<b>Incompatible materials</b>	See section 7
<b>Hazardous decomposition products</b>	See section 5

## SECTION 11 TOXICOLOGICAL INFORMATION

### Information on toxicological effects

<b>Inhaled</b>	Inhaling the fumes may cause slight respiratory irritation
<b>Ingestion</b>	Ingestion of the product may produce burns around the mouth, ulcerations and swellings of the mucous membranes, abdominal cramps, profuse saliva production, with an inability to speak or swallow. Both the oesophagus and stomach may experience burning pain; vomiting and diarrhea may follow. There is a danger of a fall in blood pressure, shock, confusion and delirium.
<b>Skin Contact</b>	The material can produce severe chemical burns following direct contact with the skin. Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. . Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. Contact may cause severe itchiness, skin lesions and mild eczema.
<b>Eye</b>	If applied to the eyes, this material causes severe eye damage. Direct eye contact with corrosive bases can cause pain and burns. There may be swelling, epithelium destruction, clouding of the cornea and inflammation of the iris. Mild cases often resolve; severe cases can be prolonged with complications such as persistent swelling, scarring, permanent cloudiness, bulging of the eye, cataracts, eyelids glued to the eyeball and blindness. Vapours or mists may be extremely irritating.
<b>Chronic</b>	Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue.

### Toxicological effects of ingredients

<b>sodium hypochlorite</b>	Acute toxicity	Oral – estimate >2000 mg/kg Dermal – estimate > 2000 mg/kg Inhalation – estimate >20mg/L
	Skin corrosion/irritation	Corrosive to skin - may cause skin burns
	Eye damage/irritation	Corrosive to eyes: contact can cause corneal burns.
	Respiratory/skin sensitization	Not a respiratory or skin sensitizer
	Germ cell mutagenicity	classified as non-hazardous.
	Carcinogenicity	classified as non-hazardous.
	Reproductive toxicity	classified as non-hazardous.
	STOT (single exposure)	classified as non-hazardous.
	STOT (repeated exposure)	classified as non-hazardous.
Aspiration toxicity	classified as non-hazardous	
<b>lauryl dimethylamine oxide</b>	Acute toxicity	Oral LD50 >1065 mg/kg Dermal LD50 >2000 mg/kg
	Skin corrosion/irritation	Causes skin irritation.
	Eye damage/irritation	Causes serious eye damage
	Respiratory/skin sensitization	not expected to cause skin sensitization
	Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic
	Carcinogenicity	not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA
	Reproductive toxicity	not expected to cause reproductive or developmental effects
	STOT (single exposure)	Not applicable
	STOT (repeated exposure)	Not applicable
Aspiration toxicity	Not applicable	
<b>sodium hydroxide</b>	Acute toxicity	Data not available
	Skin corrosion/irritation	Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns.
	Eye damage/irritation	A severe eye irritant. Corrosive to eyes; contact can cause corneal burns.
	Respiratory/skin sensitization	Not expected to be a sensitiser
	Germ cell mutagenicity	No expected to be mutagenic
	Carcinogenicity	Not expected to be carcinogenic
	Reproductive toxicity	Data not available
	STOT (single exposure)	May cause irritation to respiratory system
	STOT (repeated exposure)	Data not available
Aspiration toxicity	Not considered an aspiration hazard	
<b>sodium lauryl ether sulphate</b>	Acute toxicity	Oral LD50 (rat) >2000 mg/kg
	Skin corrosion/irritation	Contact with skin will result in irritation. Will have a degreasing action on the skin.
	Eye damage/irritation	An eye irritant
	Respiratory/skin sensitization	May cause skin sensitisation in sensitive individuals. Repeated or prolonged skin contact may lead to allergic contact dermatitis.
	Germ cell mutagenicity	No available data
	Carcinogenicity	No available data
	Reproductive toxicity	No available data
	STOT (single exposure)	No available data
	STOT (repeated exposure)	No available data
Aspiration toxicity	No available data	

**SECTION 12 ECOLOGICAL INFORMATION****Toxicity**

	Endpoint	Duration (Hr.)	Species	Value
sodium hydroxide	LC50	96	Fish	<180mg/L
	EC50	48	Crustacea	40.4mg/L
lauryl dimethylamine oxide	LC50	96	Fish	2.4mg/L
	EC50	48	Crustacea	2.9mg/L
	EC50	72	Algae or other aquatic plants	0.015mg/L
	EC10	72	Algae or other aquatic plants	0.002mg/L
	NOEC	72	Algae or other aquatic plants	0.003mg/L
sodium hypochlorite	LC50	96	Fish	0.037mg/L
	EC50	48	Crustacea	0.026mg/L
	EC50	72	Algae or other aquatic plants	0.018mg/L
	NOEC	72	Algae or other aquatic plants	0.005mg/L
sodium lauryl ether sulfate	NOEC	48	Fish	0.26mg/L

Harmful to aquatic organisms. Prevent, by any means available, spillage from entering drains or water courses.

**DO NOT** discharge into sewer or waterways.

**Persistence and degradability**

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium hydroxide	LOW	LOW
lauryl dimethylamine oxide	LOW	LOW

**Bio accumulative potential**

Ingredient	Bioaccumulation
sodium hydroxide	LOW (LogKOW = -3.8796)
lauryl dimethylamine oxide	HIGH (LogKOW = 4.673)

**Mobility in soil**

Ingredient	Mobility
sodium hydroxide	LOW (KOC = 14.3)
lauryl dimethylamine oxide	LOW (KOC = 18660)

**SECTION 13 DISPOSAL CONSIDERATIONS****Waste treatment methods**

Product / packaging disposal	Recycle container whenever possible. Dispose of product and containers in accordance with local government regulations
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**SECTION 14 TRANSPORT INFORMATION****Labels Required**

Marine Pollutant	NO
HAZCHEM	2X

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS WHEN IN PACKS OF 5L OR LESS

**SECTION 15 REGULATORY INFORMATION****Safety, health and environmental regulations / legislation specific for the substance or mixture****SODIUM HYDROXIDE IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5  
Australian Inventory of Industrial Chemicals (AIIC)

**LAURYL DIMETHYLAMINE OXIDE IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australian Inventory of Industrial Chemicals (AIIC)

**SODIUM HYPOCHLORITE IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5  
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6  
Australian Inventory of Industrial Chemicals (AIIC)  
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

**SODIUM LAURYL ETHER SULFATE IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
Australian Inventory of Industrial Chemicals (AIIC)

**SECTION 16 OTHER INFORMATION****Revision Schedule**

<b>Revision Date</b>	28/05/2024
<b>Initial Date</b>	18/11/2016

**SDS Version Summary**

Version	Issue Date	Sections Updated
4.1	23/11/2020	Sections 2,11,12,15,16 have been updated or corrected
4.2	26/07/2022	Sections 2, 3, 11, 12, 15.
4.2.1	28/05/2024	Section 1

**Other information**

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSNO (CCID) New Zealand, AICIS and HCIS Australia

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**Definitions and abbreviations**

PC-TWA;	Permissible Concentration-Time Weighted Average
PC-STEL:	Permissible Concentration-Short Term Exposure Limit
IARC:	International Agency for Research on Cancer
ACGIH:	American Conference of Government Industrial Hygienists
STEL:	Short Term Exposure Limit
TEEL:	Temporary Emergency Exposure Limit
IDLH:	Immediate Danger to Life or Health Concentrations
OSF:	Odour Safety Factor
NOAEL:	No Observed Effects Level
TLV:	Threshold Limit Value
LOD:	Limit Of Detection
OTV:	Odour Threshold Value
BCF:	Bio Concentration Factors
BEL:	Biological Exposure Index

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**End of SDS**