# Clorina

# Safety Data Sheet



#### Section 1. Identification of the material and the supplier

Product: Clorina Product Code: 701074209

Product Use: For wipe disinfection of surfaces, inventory and medical

devices. For professional use.

ANZ Distributor: Getinge Australia Getinge Australia (NZ Branch)

Address 11 Help Street 600 Great South Road Level 7, Suite 701 Building B, Level 2

Chatswood NSW 2067 AUS Ellerslie, Auckland, 1051 NZ

Telephone 1800 438 464 0800 1 438 4643

Emergency Telephone: AUS +61 2 8014 4558

NZ +64 9 929 1483 or 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 13 June 2023

#### Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

#### **EPA Approval Code:**

Cleaning Products (Corrosive) Group Standard 2020 - HSR002526

## **Pictograms**







Signal Word: **DANGER** 

GHS Classification and Category	Hazard Code	Hazard Statement
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
Respiratory sensitisation Cat. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin corrosion Cat. 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage Cat. 1	H318	Causes serious eye damage.

<b>Prevention Code</b>	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P234	Keep only in original packaging.
P260	Do not breathe dust.
P264	Wash hands thoroughly after handling.

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P270	Do not eat, drink or smoke when using this product.
P280	Wear protective clothing as detailed in Section 8.
P285	In case of inadequate ventilation wear respiratory protection.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301 +	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P330+P331	
P303 +	IF ON SKIN (or hair): Remove/Take off immediately all contaminated
P361+P353	clothing. Rinse skin with water/shower.
P304 + P341	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in
	a position comfortable for breathing.
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or
	doctor/physician.

Storage Code	Storage Statement
P405	Store locked up.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

#### Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Tosylchloramide sodium	100	7080-50-4

## Section 4. First Aid Measures

# Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Immediately call a POISON

CENTER or doctor/physician.

If on Skin Wash with plenty of soap and water. Take off contaminated clothing and

wash before re-use. Seek immediate medical attention.

If Swallowed Rinse mouth. Do NOT induce vomiting. Never give anything to the mouth

of an unconscious person. Give small amounts of water to drink. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Call a

POISON CENTER or doctor/physician if you feel unwell.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if

breathing becomes difficult.

## Most important symptoms and effects, both acute and delayed

Symptoms:

**Ingestion:** Harmful if swallowed.

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**Inhalation:** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin:** Causes severe skin burns. **Eye:** Causes serious eye damage.

#### Section 5. Fire Fighting Measures

Hazard Type	Not flammable or combustible
Hazards from	During heating or in case of fire poisonous gas may develop:
combustion	For example: Hydrochloric acid (HCl), nitrous gases (NOx) and sulfur
products	dioxide (SO2).
Suitable	Powder, water spray or foam.
Extinguishing	
media	
<b>Precautions for</b>	Wear self-contained breathing apparatus. Wear fully protective suit.
firefighters and	
special protective	
clothing	
HAZCHEM CODE	2X

#### Section 6. Accidental Release Measures

Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel. Do not inhale dust. Avoid contact with eyes and skin. For personal protection information, see section 8.

Do not allow to reach sewage system / surface or ground water.

Collect as much as possible in a container for disposal. Rinse off the rest with water. Dispose of according to Local Regulations detailed in Section 13.

#### Section 7. Handling and Storage

#### **Precautions for Handling:**

- Read carefully and follow all instructions.
- Keep only in original packaging.
- Do not breathe dust, fumes, gas, mist, vapours or spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective clothing as detailed in Section 8.
- In case of inadequate ventilation wear respiratory protection.
- Ensure good ventilation / exhaustion at the workplace.
- Take off all contaminated clothing immediately.
- Avoid contact with eyes and skin.

#### **Precautions for Storage:**

- Keep out of reach of children.
- Store locked up.
- Store cool but frost-free, well ventilated and dry area.
- Keep container tightly closed.
- Keep separate from food.

# Section 8 Exposure Controls / Personal Protection

# **WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

TWA STEL
Substance ppm mg/m³ ppm mg/m³

No ingredients have exposure limits

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Workplace Exposure Standard - Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard - Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13<sup>TH</sup> EDITION.

#### **Engineering Controls**

Keep away from foodstuff, beverages and feed. Take off all contaminated clothing immediately. Wash hands before breaks and at end of work. Avoid contact with skin and eyes.

#### **Personal Protection Equipment:**



-	nen handling the concentrated product, use tight-fitting eye protection. If ere is no risk of splashing, no eye protection is required when using the
	uted product.
	permeable gloves
	e wearing of liquid-tight gloves, without changing over four hours daily, is
	be regarded as stressful and may not be a permanent measure.
	netration time of glove material
	e resistance of gloves is dependent on many features (material, layer
	ckness, manufacturer, temperature, stress and duration of contact) and
	t predictable in advance. Each user has to test the resistance of the gloves
	his personal use. Penetration times according to EN 374 are specified by
ma	anufacturers and provide guidance for the comparison of gloves.
Ma	aterial recommendations
Nit	rile rubber or Butyle rubber
<b>Skin</b> Pro	otective clothing
In	order to prevent skin irritations in the professional field, the following is -
reg	gardless of the actual contact with disinfectants - recommended:
Fa	st skin penetrating care cream in between if needed.
A	greasy cream after washing at the end of work or before work breaks.
<b>Respiratory</b> Re	spiratory protection is recommended for handling the Clorina powder and,
	anding on the contiletion situation for a contain time of the monday Very and
de	pending on the ventilation situation, for a certain time afterwards. You can
	e respiratory protection with a particle filter "P2". The respirator should
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us ha	e respiratory protection with a particle filter "P2". The respirator should ve an exhalation valve or similiar. You should make sure that the
us ha res	e respiratory protection with a particle filter "P2". The respirator should ve an exhalation valve or similiar. You should make sure that the spiratory protection fits snugly on the face. This is the only way that all of
us ha res the	e respiratory protection with a particle filter "P2". The respirator should ve an exhalation valve or similiar. You should make sure that the

Section 9	Physical and Chemical Properties
	/

Appearance	Hard, fine powder
Colour	White
Odour	Characteristic, weak after chlorine
Odour Threshold	Not available
pH @ 20°C	Ca. 8 (50g/L H <sub>2</sub> O) @ 20°C
<b>Boiling Point</b>	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
Upper and Lower	Not available
<b>Explosive Limits</b>	
Vapour Pressure	Not available

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Vapour Density	Not available
Density @ 20°C	1430 kg/m <sup>3</sup>
<b>Bulk Density</b>	0.7 g/ml +/- 0.1
Water Solubility	150 g/L (25°C)
Partition Coefficient:	Not available
Auto-ignition	176°C
Temperature	
Viscosity	5.4 cSt
Oxidising Properties	Not determined, has an oxidizing effect

# Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.	
Possibility of hazardous	No hazardous reactions if used as described.	
reactions		
Conditions to Avoid	Refer to Section 7	
Incompatible Materials	Water vapour, acids	
Hazardous Decomposition No decomposition if stored and used as described. In contact		
Products	with water vapor unstable. In contact with acid, develops toxic	
	gases.	

#### **Toxicological Information Section 11**

#### **Acute Effects:**

Swallowed	Harmful if swallowed. Oral LD50: rat, mouse: approx. 1000 mg / kg	
Dermal	Does not contain any ingredients classified as acutely toxic.	
Inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled. LC50: Rat: > 0.275 mg / I (4 hours) (maximum achievable concentration)	
Eye	Causes serious eye damage.	
Skin	Causes severe skin burns.	

#### **Chronic Effects:**

Carcinogenicity	Does not contain any ingredients classified as carcinogenic.	
Reproductive	Does not contain any ingredients classified as toxic for reproduction.	
Toxicity		
Germ Cell	Does not contain any ingredients classified as mutagenic.	
Mutagenicity		
Aspiration	Does not contain any ingredients classified as Asp Tox.	
STOT/SE	Does not contain any ingredients classified as STOT SE.	
STOT/RE	Does not contain any ingredients classified as STOT RE.	

# Section 12. Ecotoxicological Information

Not classified as dangerous for the environment.

Product:	Fish: 96h-LC50 (Poecilia reticulata): 31 mg / l
	Daphnia: 48h-EC50: 4.5 mg / I
Persistence and degradability   Degradation biotic. Easily biodegradable (at low	
	concentrations).
	p-Toluenesulfonamide (hydrolysis product): Easily
	biodegradable
Bioaccumulation	Not expected to bioaccumulate.
Mobility in Soil	No data available.
Other adverse effects	No data available.
Other information	Reproduction test with Daphnia magna: Lower threshold

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#### **Section 13. Disposal Considerations**

#### **Disposal Method:**

Dispose of surplus product and packaging via a licensed chemical waste contractor. Empty cleaned containers can be recycled where facilities exist or sent for landfill or incineration where permitted. Process effluent can normally be discharged to foul sewer (subject to consent limits). May require pH neutralization.

Ensure any container holding waste product or contaminated spill media is labelled "Hazardous Waste –Corrosive" and that the label also has the Corrosive Pictogram, waste type identifier, and the business name, address, and phone number.

Disposal methods to avoid: None known.

### **Section 14** Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2020 and SNZ HB 5433:2021



#### Road, Rail, Sea and Air Transport

UN No	3263	
Class - Primary	8	
Packing Group	III	
<b>Proper Shipping Name</b>	CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (tosylchloramide	
	sodium)	
Marine Pollutant	No	
Special Provisions	If the product's individual container is below 1L, it can be	
	transported as a non-DG as long as the product packaging is still	
	labelled as per DG requirements and the driver is given safety	
	information in accordance with Chapter 3.4 of the UNRTDG.	

#### Section 15 Regulatory Information

#### **EPA Approval No:**

Cleaning Products (Corrosive) Group Standard 2020 - HSR002526

Trigger quantities for this substance:

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	250L
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	250L
Emergency Response Plan	1000L
Secondary Containment	1000L
Restriction of Use	Only use for the intended purpose.

Section 16	Other Information
Glossary	
EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.

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HSW Health and Safety at Work.

LC<sub>50</sub> Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD<sub>50</sub> Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

UEL Upper Explosive Level WES Workplace Exposure Limit

#### References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017

2. Workplace Exposure Standards and Biological Exposure Indices April 2022 edition.

3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).

4. Transport of Dangerous goods on land NZS 5433:2020

5. HSW (Hazardous Substances) Regulations 2017

#### Disclaimer

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Please contact the New Zealand distributor, if further information is required.

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