

Safety Data Sheet CLINISAN

Section 1: PRODUCT IDENTIFICATION

Product Identifier:

Product name: CLINISAN

Recommended uses:

Chlorine based disinfectant

Contact details:

WORCHEM Limited,
247 Old School Road,
Ngahinapouri, 3882
Tel: +64 27 635 2103

Emergency 24-hour Contact:

NZ Poisons Centre: 0800 POISON (0800 764 766)

Section 2: HAZARD IDENTIFICATION

Hazardous according to the HSNO (Minimum Degrees of Hazard) Regulations 2001.

Signal word: **DANGER**

**Hazard Categories**

Acute toxicity: oral – Category 4
Acute toxicity: inhalation – Category 4
Skin irritation – Category 2
Serious eye damage – Category 1
Aquatic toxicity (acute) – Category 1
Ecotoxic to soil environment
Ecotoxic to terrestrial vertebrates

Hazard Statements

Harmful if swallowed or inhaled
Causes skin irritation
Causes serious eye damage
Very toxic to aquatic life
Very toxic to the soil environment
Harmful to terrestrial vertebrates

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Prevention:

Keep out of reach of children.
Read label before use.
Wash hands thoroughly after handling.
Avoid breathing dust.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Wear protective gloves and eye protection.

Response:

If medical advice is needed, have product container or label at hand.
Immediately call a POISON CENTER or doctor/physician.
Call a POISON CENTER or doctor/physician if you feel unwell.
Rinse mouth.
Take off contaminated clothing and wash before re-use.
Collect spillage.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
If skin irritation occurs: Get medical advice/ attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage:

None

Disposal:

Dispose of product according local regulations

Other:

Keep away from acids. Contact with acids liberates toxic gas.

Section 3: COMPOSITION

CAS Number	Ingredients	Wt%
2893-78-9	Sodium dichloroisocyanurate	>60%
77-92-9	Citric acid	10-30%
-	Non hazardous material	-

Section 4: FIRST AID**Eye Contact:**

Irritating to the eye. Direct contact may cause severe irritation, pain and burns, and permanent damage including blindness. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, seek medical attention.

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Inhalation:	This material contained in this tablet in solid form is not expected to produce respiratory effects. If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/ attention.
Ingestion:	Harmful if swallowed. Seek immediate medical attention. Ingestion may cause immediate pain and severe burns of the mucous membranes. If swallowed, immediately rinse mouth, and then drink plenty of water or milk. DO NOT induce vomiting.
Skin Contact:	Direct contact with wet material or moist skin may cause severe irritation, pain, and possibly burns. Remove contaminated clothing. If on skin, Flush skin with plenty of water for at least 15 minutes.

Section 5: FIRE-FIGHTING

Flammable properties:	Non-flammable.
Extinguishing media:	Flood with copious amounts of water. Potential for production of nitrogen trichloride if left damp. Do not use dry chemicals, carbon dioxide or halogenated extinguishing agents.
Hazards arising from combustion:	Production of noxious gasses during combustion, including: Chlorine, nitrogen, nitrogen trichloride, cyanogen chloride, oxides of carbon, phosgene.
Special equipment:	Full protective clothing and a self-contained breathing apparatus. Use sodium carbonate for decontamination of firefighting equipment

Section 6: ACCIDENTAL RELEASE

Evacuate all unnecessary personnel. Handle spillage carefully. Do not clean-up spillage with water. Never return spilled material to original container.

Do not release into the environment. Prevent flow of material into water source and begin monitoring available chlorine and pH immediately. Notify all downstream users of possible contamination.

Contain spilled material. Any spillage should be cleaned up as soon as possible. Do not add water to spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean, dry containers for disposal. Do not close drums containing wet or damp material. Do not transport wet or damp material. Dispose of waste according to the applicable local and national regulations.

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Section 7: HANDLING AND STORAGE

Read label before use.
Keep out of reach of children.

Storage: Store in original container and in a cool dry area. Keep container tightly closed. Do not allow water to enter container. Keep away from fire, heat, flame & direct sunlight.

Handling: Use the protective equipment recommended in section 8. Do not eat, drink or smoke when handling this material. Avoid breathing dust. Wash hands thoroughly after handling. Avoid contact with eyes, skin and clothing. When handling large quantities of tablets, wear gloves and safety goggles

Incompatibilities: Contamination with moisture, organic matter or other chemicals may start a chemical reaction with generation of heat, liberation of hazardous gases, and possible generation of fire and explosion.

Section 8: EXPOSURE CONTROLS

Ventilation: Use only in a well-ventilated areas. Provide local exhaust ventilation where dust or mist may be generated.

Eye protection: Wear chemical safety goggles. Avoid wearing contact lenses if possible. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Respiratory protection: Where any dust in the breathing zone cannot be controlled with local ventilation, wear officially approved respirator for protection against airborne dust. An approved respirator with EN140 (chlorine) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. The added protection of a full-face piece respirator is required when visible dusty conditions are encountered and eye irritation may occur. A respiratory protection program that meets applicable regulatory requirements must be followed whenever workplace conditions warrant use of a respirator.

Skin protection: Wear suitable chemical resistant gloves. Protective Material Types: Butyl rubber, Natural rubber, Neoprene, Nitrile, Polyvinyl chloride (PVC). Wear protective clothing to minimize skin contact. Contaminated clothing should be removed and laundered before reuse. Wash thoroughly with soap and water after handling.

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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White tablet	Vapour Pressure	N/A
Odour and Threshold	Characteristic chlorine odour	Vapour Density	N/A
pH	5-7	Rel. Density / Specific Gravity	N/A
Melting /Freezing point	N/A	Solubility	Completely soluble in water
Boiling point	N/A	Partition coefficient	$K_{ow} = 0$
Flash Point	N/A	Auto-ignition temp	N/A
Flammability	Non-flammable	Decomposition temp	225-250°C
Explosive limits	N/A	Kinematic viscosity	N/A

Section 10: STABILITY / REACTIVITY

Reactivity:	Stable at normal temperature and pressure
Conditions to avoid:	Do not get wet. Do not allow water to enter container
Incompatible materials:	Strong acids, strong alkali material, reducing agents, combustible material.
Hazardous decomposition Products:	Chlorine, hydrogen chloride, nitrogen dioxide, nitrogen, nitrogen trichloride, cyanogen chloride, carbon monoxide, phosgene.

Section 11: TOXOLOGICAL INFORMATION

Route of entry:	Inhalation, skin contact and ingestion.
Inhalation:	Can cause irritation to the nose, mouth, throat and lungs.
Ingestion:	Can cause irritation and /or burns to the gastrointestinal tract.
Skin contact:	Can cause severe irritation and /or burns, characterized by redness & swelling.
Eye contact:	Causes severe eye irritation. May cause impairment of vision and corneal damage.
Acute toxicity:	Sodium dichloroisocyanurate 735 mg/kg (oral - rat) 2000 mg/kg (dermal rabbit) 1.17 mg/m³ (Inhalation) https://www.epa.govt.nz/database-search/chemical-classification-and-information-database-ccid/view/1776 Citric acid Corrosive to ocular tissue (rabbit) https://www.epa.govt.nz/database-search/chemical-classification-and-information-database-ccid/view/3044

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Section 12: ECOLOGICAL INFORMATION

Product is very toxic to aquatic life. Do not discharge into lakes, ponds, streams or public water unless in accordance with the permit of official regulations.

Aquatic toxicity: Very toxic to aquatic life
Bio accumulative: No
Rapidly degradable: Yes

Daphnia magna (Crustacea) $LC_{50} = 0.28 \text{ mg/L}$
Salmo gairdneri (fish) $LC_{50} = 0.13 \text{ mg/L}$

Soil toxicity: Very ecotoxic in the soil environment
Soil DT 50 > 30 days: yes

Vertebrate toxicity: Harmful to terrestrial vertebrates
Colinus virginianus (avian) $LC_{50} = 730 \text{ mg/kg}$

<https://www.epa.govt.nz/database-search/chemical-classification-and-information-database-ccid/view/1776>

Section 13: DISPOSAL CONSIDERATIONS

Disposal Method: Do not put product, spilled product, partially filled containers into the waste compactor. Contact with incompatible materials could cause a reaction and fire. Do not transport damp or wet material. Neutralise materials with sodium carbonate for safe disposal.

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

Precautions or methods to avoid: Avoid release to the environment.

Section 14: TRANSPORT INFORMATION

This product is classified as a **Dangerous Good** for transport in NZ; NZS 5433:2012 Road and Rail Transport, IATA, IMDG

Pictogram	
UN Number	3077
Class	9

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Packing Group	III
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SODIUM DICHLOROISOCYANURATE)

Limited quantities: 5 kg
Marine Pollutant: Yes
Stowage and Segregation: Keep as dry as possible

Section 15: REGULATORY INFORMATION

EPA Approval Code: HSR002530 Cleaning Products (Subsidiary Hazard) Group Standard 2020

All materials listed on the New Zealand Inventory of Chemicals (NZIoC).

Certified Handler	Not required
Tracker information	Not required
Location Test Certificate	Not required
Signage trigger quantities	100 kg
Secondary containment	100 kg
Emergency Response Plan Trigger Quantities	100 kg

Section 16: OTHER INFORMATION

SDS Version Number: 2.0 - Update of SDS to meet new GHS requirements
SDS Effective Date: 9/06/2020 **SDS Review Date:** 9/06/2026

Acronyms:

CAS number	Chemical Abstracts Service Registry Number
EPA	Environmental Protection Agency
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
HSNO	Hazardous Substances and New Organisms
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Concentration deemed lethal to 50% of the population
NOS	Not otherwise specified
NZIoC	New Zealand Inventory of Chemicals
NZS	New Zealand Standard
R-Phrase	Risk Phrase
SDS	Safety Data Sheet
UN Number	United Nations Number
Wt%	Weight as a percentage of the total weight