

VIROCID

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : VIROCID

Other means of identification : Not applicable.

Recommended use Sanitizer

Restrictions on use Reserved for industrial and professional use.

Product dilution information No dilution information provided.

Company **Ecolab New Zealand**

2 Daniel Place

Te Rapa, Hamilton New Zealand

+64 7 958 2319

Emergency telephone : 0800 243 622 (0800 CHEMCALL)

number +64 7 958 2372 (International)

Issuing date : 21.11.2021

Section: 2. HAZARDS IDENTIFICATION

HSNO Hazard classification

Flammable Liquids : 3.1 C Acute toxicity (Oral) : 6.1 D Skin corrosion : 8.2 B Serious eye damage : 8.3 A Respiratory sensitization : 6.5 A Skin sensitization : 6.5 B

Specific Target Organ : 6.9 B (Respiratory system)

Systemic Toxicity (Single Exposure or Repeated

Exposure)

Aquatic toxicity (Acute or

Chronic)

Aquatic toxicity (Acute or

Chronic)

: 9.1 A : 9.1 B

GHS Label element

Hazard pictograms









: Danger Signal Word

Hazard Statements : Flammable liquid and vapour.

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

May cause respiratory irritation. Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

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Precautionary Statements

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. Wear respiratory protection. In case of inadequate ventilation wear respiratory protection.

Response:

In case of fire: Use alcohol-resistant foam, carbon dioxide or dry sand for extinction. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment is urgent (see supplemental first aid instructions on this label). Specific treatment (see supplemental first aid instructions on this label). If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse. Collect spillage. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical NameCAS-No.Concentration: (%)benzalkonium chloride68424-85-110 - 30glutaraldehyde111-30-810 - 30Didecyl Dimethyl Ammonium Chloride7173-51-55 - 10Isopropyl Alcohol67-63-01 - 5

Section: 4. FIRST AID MEASURES

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Get medical attention immediately.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.

Wash clothing before reuse. Thoroughly clean shoes before reuse.

Get medical attention immediately.

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give

anything by mouth to an unconscious person. Get medical attention

immediately.

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If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal

protective equipment.

Notes to physician : Treat symptomatically.

Most important symptoms and effects, both acute and

delayed

: See Section 11 for more detailed information on health effects and

symptoms.

Section: 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Fire Hazard

Keep away from heat and sources of ignition. Flash back possible over considerable distance.

Exposure to decomposition products may be a hazard to health. Beware of vapours accumulating to form explosive concentrations.

Vapours can accumulate in low areas.

Hazardous combustion

products

Decomposition products may include the following materials:

Carbon oxides

nitrogen oxides (NOx) Halogenated compounds

Special protective equipment

for firefighters

: Use personal protective equipment.

Specific extinguishing

methods

: Use water spray to cool unopened containers. Fire residues and

contaminated fire extinguishing water must be disposed of in

accordance with local regulations. In the event of fire and/or explosion

do not breathe fumes.

Hazchem Code : 2X

Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion

and contact with skin and eyes. When workers are facing

concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and

8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up

Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see

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section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Section: 7. HANDLING AND STORAGE

Advice on safe handling : Do not ingest. Do not breathe dust/fume/gas/mist/vapours/spray. Use

only with adequate ventilation. Keep away from fire, sparks and heated surfaces. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Wash hands thoroughly after handling. Do not get in eyes, on skin, or on clothing. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment

(PPE).

Conditions for safe storage : Keep away from heat and sources of ignition. Keep in a cool, well-

ventilated place. Keep away from oxidizing agents. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled

containers.

Storage temperature : 0 °C to 50 °C

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
glutaraldehyde	111-30-8	WES-Ceiling	0.05 ppm 0.21 mg/m3	NZ OEL
Isopropyl Alcohol	67-63-0	WES-TWA	400 ppm 983 mg/m3	NZ OEL
		WES-STEL	500 ppm 1,230 mg/m3	NZ OEL

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

Personal protective equipment

Eye protection : Safety goggles

Face-shield

Hand protection : Wear the following personal protective equipment:

Standard glove type.

butyl-rubber Neoprene gloves

Nitrile

Gloves should be discarded and replaced if there is any indication of

degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves,

safety goggles and protective clothing

Respiratory protection : Refer to AS/NZS 1715 and AS/NZS 1716 for selection, use and

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maintenance of respiratory protective equipment as applicable.

When workers are facing concentrations above the exposure limit they

must use appropriate certified respirators. Multi-purpose combination filter

: Handle in accordance with good industrial hygiene and safety Hygiene measures

practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes

and body in case of contact or splash hazard.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : clear, brown

Odour : no data available pΗ : Not applicable. Flash point : Not applicable. Odour Threshold : no data available : no data available Melting point/freezing point Initial boiling point and

boiling range

: no data available

: no data available Evaporation rate Flammability (solid, gas) : Not applicable. Upper explosion limit no data available Lower explosion limit : no data available Vapour pressure no data available : no data available Relative vapour density

: no data available Relative density Water solubility : no data available Solubility in other solvents : no data available

Partition coefficient: n-

octanol/water

: no data available

: no data available Auto-ignition temperature : no data available Thermal decomposition Viscosity, kinematic : no data available Explosive properties : no data available Oxidizing properties : no data available Molecular weight no data available VOC : no data available

Section: 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

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Possibility of hazardous

reactions

: No dangerous reaction known under conditions of normal use.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : None known.

Hazardous decomposition

products

: In case of fire hazardous decomposition products may be produced

such as:

Carbon oxides

nitrogen oxides (NOx) Halogenated compounds

Section: 11. TOXICOLOGICAL INFORMATION

exposure

Information on likely routes of : Inhalation, Eye contact, Skin contact

Potential Health Effects

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns. May cause allergic skin reaction.

Ingestion : Harmful if swallowed. Causes digestive tract burns.

Inhalation : May cause allergic respiratory reaction. May cause respiratory tract

irritation. May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion, Allergic reactions

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough, May cause allergy or asthma symptoms

or breathing difficulties if inhaled.

Toxicity

Product

Acute oral toxicity : Acute toxicity estimate : 690.6 mg/kg

Acute inhalation toxicity : no data available

: Acute toxicity estimate : > 5,000 mg/kg Acute dermal toxicity

Skin corrosion/irritation : no data available Serious eye damage/eye : no data available

irritation

: no data available Respiratory or skin

sensitization

: no data available Carcinogenicity

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Reproductive effects : no data available
Germ cell mutagenicity : no data available
Teratogenicity : no data available
STOT - single exposure : no data available
STOT - repeated exposure : no data available
Aspiration toxicity : no data available

Components

Acute inhalation toxicity : benzalkonium chloride

4 h LC50 rat: 0.054 mg/lTest atmosphere: dust/mist

glutaraldehyde

4 h LC50 rat: 0.28 mg/lTest atmosphere: dust/mist

Didecyl Dimethyl Ammonium Chloride

4 h LC50 rat: 0.07 mg/ITest atmosphere: dust/mist

Isopropyl Alcohol

4 h LC50 rat: > 30 mg/lTest atmosphere: vapour

Section: 12. ECOLOGICAL INFORMATION

Toxicity

Environmental Effects : Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Product

Toxicity to fish : no data available

Toxicity to daphnia and other : no data available
aquatic invertebrates

Toxicity to algae : no data available

Components

Toxicity to fish : glutaraldehyde

96 h LC50 Oncorhynchus mykiss (rainbow trout): 0.8 mg/l

Didecyl Dimethyl Ammonium Chloride

96 h LC50 Fish: < 1 mg/l

Isopropyl Alcohol

96 h LC50 Pimephales promelas (fathead minnow): 9,640 mg/l

Components

Toxicity to daphnia and other

aquatic invertebrates

: benzalkonium chloride

48 h EC50 Daphnia magna (Water flea): 0.016 mg/l

glutaraldehyde

48 h EC50 Daphnia magna (Water flea): 0.35 mg/l

Isopropyl Alcohol

LC50 Daphnia magna (Water flea): > 10,000 mg/l

Components

Toxicity to algae : glutaraldehyde

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72 h EC50 Scenedesmus quadricauda (Green algae): 0.6 mg/l 72 h NOEC Scenedesmus quadricauda (Green algae): 0.025 mg/l

Persistence and degradability

Biodegradable

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

Section: 13. DISPOSAL CONSIDERATIONS

Disposal methods : Do not contaminate storm water drains, natural waterways or soil with

chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved

waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to

an approved waste handling site for recycling or disposal. Do not reuse empty containers. Dispose of in accordance with local, state, and

federal regulations.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (NZ_DG)

UN number : 1760

Description of the goods : CORROSIVE LIQUID, N.O.S.

(Alkyl dimethyl benzyl ammonium chloride, Glutaraldehyde)

Class : 8
Packing group : III
Hazchem Code : 2X

Sea transport (IMDG/IMO)

UN number : 1760

Proper shipping name : CORROSIVE LIQUID, N.O.S.

(Alkyl dimethyl benzyl ammonium chloride, Glutaraldehyde)

Class : 8
Packing group : III
Marine pollutant : Yes

Special precautions for user : None

Section: 15. REGULATORY INFORMATION

HSNO Approval Number : HSR002529

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HSNO Group Standard : Cleaning Products (Flammable, Corrosive) Group Standard 2017

The components of this product are reported in the following inventories:

United States TSCA Inventory:

All substances listed as active on the TSCA inventory

Canadian Domestic Substances List (DSL):

All components of this product are on the Canadian DSL.

Australia. Australian Industrial Chemicals Introduction Scheme (AICIS):

On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand:

On the inventory, or in compliance with the inventory

Japan. ENCS - Existing and New Chemical Substances Inventory:

not determined

Korea. Korean Existing Chemicals Inventory (KECI):

On the inventory, or in compliance with the inventory

Philippines Inventory of Chemicals and Chemical Substances (PICCS):

On the inventory, or in compliance with the inventory

China Inventory of Existing Chemical Substances:

On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory:

On the inventory, or in compliance with the inventory

Section: 16. OTHER INFORMATION

Issuing date : 21.11.2021

version : 1.1

Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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