

## 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

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Emergency telephone : 0800 243 622 (0800 CHEMCALL)

number +64 7 958 2372 (International)

Issuing date : 07.09.2022

## **Section: 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Flammable liquids : Category 3
Acute toxicity (Oral) : Category 4
Skin corrosion/irritation : Category 1B
Serious eye damage/eye : Category 1

irritation

Respiratory sensitization : Category 1 Skin sensitization : Category 1

Specific target organ toxicity - : Category 3 (Respiratory system)

single exposure

Acute aquatic toxicity : Category 1 Chronic aquatic toxicity : Category 2

# **GHS Label element**

Hazard pictograms











Signal Word : Danger

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.

Precautionary Statements : Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other

922656 1 / 9

# **VIROCID**

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 action to prevent static discharges. 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. Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. In case of inadequate ventilation wear respiratory protection. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Avoid release to the environment.

# Response:

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

# Storage:

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

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

922656 2/9

# **VIROCID**

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. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. 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 section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

922656 3/9

# **VIROCID**

## 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 rubber

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

maintenance of respiratory protective equipment as applicable.

When workers are facing concentrations above the exposure limit they

must use appropriate certified respirators.

922656 4 / 9

# VIROCID

Respirator with filter for organic vapour

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

> 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 : formaldehyde-like рΗ 3.0 - 5.0, (100 %)

: 60 °C Flash point

Odour Threshold : no data available Melting point/freezing point : no data available Initial boiling point and : no data available

boiling range

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

Relative density 1.01 - 1.02

: no data available Water solubility Solubility in other solvents : no data available Partition coefficient: n-: no data available

octanol/water

: no data available Auto-ignition temperature Thermal decomposition : no data available 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.

Possibility of hazardous

reactions

: No dangerous reaction known under conditions of normal use.

922656 5/9

# VIROCID

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

: Corrosion, Abdominal pain Ingestion

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 dermal toxicity : Acute toxicity estimate : > 2,000 mg/kg

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 : no data available Reproductive effects : no data available Germ cell mutagenicity

922656 6/9

# **VIROCID**

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/lTest atmosphere: dust/mist

Isopropyl Alcohol

4 h LC50 rat: > 30 mg/ITest 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

Didecyl Dimethyl Ammonium Chloride

48 h EC50 Daphnia magna (Water flea): 0.029 mg/l

Isopropyl Alcohol

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

Components

Toxicity to algae : glutaraldehyde

922656 7 / 9

# **VIROCID**

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

Didecyl Dimethyl Ammonium Chloride

72 h EC50 Pseudokirchneriella subcapitata (algae): 0.062 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 contents/container in accordance with local regulations Dispose of in

accordance with local and national regulations.

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

922656 8 / 9

## **VIROCID**

# Section: 15. REGULATORY INFORMATION

HSNO Approval Number : HSR002529

HSNO Group Standard : Cleaning Products (Flammable, Corrosive) Group Standard 2020

### 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 : 07.09.2022

Version : 1.3

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.

922656 9 / 9