

#### VIROCID Bulk

### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : VIROCID Bulk

Other means of identification : Not applicable

Recommended use : Disinfectant

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : No dilution information provided.

Company : Ecolab Inc.

1 Ecolab Place

St. Paul, Minnesota USA 55102

1-800-352-5326

Emergency health

information

: 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 02/15/2024

### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Flammable liquids : Category 3
Acute toxicity (Oral) : Category 3
Acute toxicity (Inhalation) : Category 3
Acute toxicity (Dermal) : Category 3
Skin corrosion : Category 1A
Serious eye damage : Category 1

#### **GHS** label elements

Hazard pictograms :







Signal Word : Danger

Hazard Statements : Flammable liquid and vapor.

Toxic if swallowed, in contact with skin or if inhaled.

Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:** 

Keep away from heat/ sparks/ open flames/ hot surfaces. 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. Avoid breathing mist or vapors. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face

protection. **Response:** 

IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce

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vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. Take off contaminated clothing and wash before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

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

Disnosal:

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 name	CAS-No.	Concentration (%)
Alkyl (C14 50%, C12 40%, C16 10%) dimethyl	68424-85-1	17.06
benzyl ammonium chloride		
Isopropanol	67-63-0	10 - 30
glutaraldehyde	111-30-8	10.725
Didecyl Dimethyl Ammonium Chloride	7173-51-5	7.8
ethanol	64-17-5	1 - 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

immediately.

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

and effects, both acute and delayed

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

symptoms.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

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

circumstances and the surrounding environment.

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Unsuitable extinguishing

media

: High volume water jet

Specific hazards during fire

fighting

: Fire Hazard

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

Beware of vapors accumulating to form explosive concentrations.

Vapors can accumulate in low areas.

Hazardous combustion

products

: Decomposition products may include the following materials:

Carbon oxides

Nitrogen oxides (NOx)

Special protective equipment

for fire-fighters

: 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.

## **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). 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 get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ 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 vapors). Wash hands thoroughly after handling. 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

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Isopropyl Alcohol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		STEL	500 ppm 1,225 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	OSHA Z1
glutaraldehyde	111-30-8	Ceiling	0.2 ppm 0.8 mg/m3	NIOSH REL
		Ceiling	0.05 ppm	ACGIH
ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z1

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

# Personal protective equipment

Eye protection : Wear eye protection and/or face protection.

Hand protection : Wear the following personal protective equipment:

Standard glove type.

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 : When workers are facing concentrations above the exposure limit they

must use appropriate certified respirators.

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

Color : clear, colorless

Odor : pine

pH : 3.0 - 5.0, (100 %)

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Flash point : 40 °C closed cup Odor Threshold : No data available Melting point/freezing point : No data available

Initial boiling point and

boiling range

: > 35 °C

: No data available Evaporation rate Flammability (solid, gas) : Not applicable Upper explosion limit : No data available Lower explosion limit : No data available Vapor pressure : No data available Relative vapor density : No data available

Relative density : 0.979 Water solubility : soluble

Solubility in other solvents : No data available Partition coefficient: n-

octanol/water

Thermal decomposition

Viscosity, kinematic

: No data available

Autoignition temperature : No data available : No data available : 1.040 mm2/s (40 °C)

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.

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)

## **SECTION 11. TOXICOLOGICAL INFORMATION**

exposure

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

# **Potential Health Effects**

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Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Toxic if swallowed. Causes digestive tract burns.

Inhalation : Toxic if inhaled. 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

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

#### **Toxicity**

**Product** 

Acute oral toxicity : No data available
Acute inhalation toxicity : No data available
Acute dermal toxicity : No data available
Skin corrosion/irritation : No data available
Serious eye damage/eye : No data available

irritation

Respiratory or skin

sensitization

: No data available

Carcinogenicity : No data available
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 oral toxicity : Alkyl (C14 50%, C12 40%, C16 10%) dimethyl benzyl ammonium

chloride

LD50 Rat: 344 mg/kg

Isopropanol

LD50 Rat: 5,840 mg/kg

glutaraldehyde LD50 Rat: 150 mg/kg

Didecyl Dimethyl Ammonium Chloride

LD50 Rat: 329 mg/kg

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ethanol

LD50 Rat: 10,470 mg/kg

Components

Acute inhalation toxicity : Alkyl (C14 50%, C12 40%, C16 10%) dimethyl benzyl ammonium

chloride

4 h LC50 Rat: 0.054 mg/l Test atmosphere: dust/mist

Isopropanol

4 h LC50 Rat: > 30 mg/l Test atmosphere: vapor

glutaraldehyde

4 h LC50 Rat: 0.28 mg/l Test atmosphere: dust/mist

Didecyl Dimethyl Ammonium Chloride

4 h LC50 Rat: 0.07 mg/l Test atmosphere: dust/mist

ethanol

4 h LC50 Rat: 117 mg/l Test atmosphere: vapor

Components

Acute dermal toxicity : Alkyl (C14 50%, C12 40%, C16 10%) dimethyl benzyl ammonium

chloride

LD50 Rabbit: 3,340 mg/kg

Isopropanol

LD50 Rabbit: 12,870 mg/kg

glutaraldehyde

LD50 Rat: 1,503 mg/kg

Didecyl Dimethyl Ammonium Chloride

LD50 Rabbit: 2,930 mg/kg

ethanol

LD50 Rabbit: 15,800 mg/kg

### **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

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 : Isopropanol

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96 h LC50 Pimephales promelas: 9,640 mg/l

glutaraldehyde

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

Didecyl Dimethyl Ammonium Chloride

96 h LC50 Fish: > 1 mg/l

ethanol

96 h LC50 Pimephales promelas: > 100 mg/l

#### Components

Toxicity to daphnia and other

aquatic invertebrates

: Alkyl (C14 50%, C12 40%, C16 10%) dimethyl benzyl ammonium

chloride

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

Isopropanol

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

ethanol

48 h EC50 Aquatic Invertebrate: 857 mg/l

### Components

Toxicity to algae : glutaraldehyde

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 ponds, waterways or ditches 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

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

federal regulations.

RCRA - Resource

Conservation and Recovery Authorization Act Hazardous

waste

: D002 (Corrosive)

### **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 (DOT)

UN number : 2920

Description of the goods : Corrosive liquids, flammable, n.o.s.

(quaternary ammonium compound, Isopropanol)

Class : 8 (3)
Packing group : II
Environmentally hazardous : yes

#### Sea transport (IMDG/IMO)

UN number : 2920

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

(quaternary ammonium compound, Isopropanol)

Class : 8 (3)
Packing group : II
Marine pollutant : yes

## **SECTION 15. REGULATORY INFORMATION**

**EPA Registration number** : 71355-1

**EPCRA - Emergency Planning and Community Right-to-Know** 

**CERCLA Reportable Quantity** 

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

Skin corrosion or irritation

Serious eye damage or eye irritation Acute toxicity (any route of exposure)

SARA 302 : This material does not contain any components with a section 302

EHS TPQ.

SARA 313 : This material does not contain any chemical components with known

CAS numbers that exceed the threshold (De Minimis) reporting levels

established by SARA Title III, Section 313.

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### California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

#### California Cleaning Product Right to Know Act of 2017 (SB 258)

This regulation does not apply to this product.

### The ingredients 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):

not determined

## New Zealand. Inventory of Chemical Substances:

not determined

### Japan. ENCS - Existing and New Chemical Substances Inventory :

On the inventory, or in compliance with the inventory

### 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 in China (IECSC):

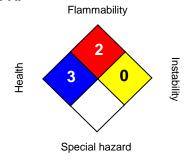
On the inventory, or in compliance with the inventory

## Taiwan Chemical Substance Inventory (TCSI):

On the inventory, or in compliance with the inventory

### **SECTION 16. OTHER INFORMATION**

#### NFPA:



#### HMIS III:

HEALTH	3
FLAMMABILITY	2
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

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Version : 1.1

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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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