

### MIKROKLENE

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

Product name : MIKROKLENE

Other means of identification : Not applicable

Recommended use : Sanitizer

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : US EPA not tested, refer to product label when applying this product.

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 : 04/21/2017

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

#### **GHS Classification**

Acute toxicity (Oral) : Category 4
Acute toxicity (Inhalation) : Category 4
Acute toxicity (Dermal) : Category 4
Skin corrosion : Category 1A
Serious eye damage : Category 1

**GHS** label elements

Hazard pictograms :





Signal Word : Danger

Hazard Statements : Harmful if swallowed, in contact with skin or if inhaled.

Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:** 

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. 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. Do not mix with bleach or other chlorinated products — will cause

chlorine gas. **Response:** 

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: 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.

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Immediately call a POISON CENTER/doctor. Wash contaminated

clothing before reuse.

Storage:

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 name CAS-No. Concentration (%)

 Alkylethoxy-propoxylates
 9038-95-3
 10 - 30

 Phosphoric acid
 7664-38-2
 6.55

 iodine
 7553-56-2
 2

 2-butoxyethanol
 111-76-2
 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. Use

a mild soap if available. 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 if

symptoms occur.

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. FIRE-FIGHTING MEASURES**

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

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: None known.

Specific hazards during fire

fighting

: Not flammable or combustible.

Hazardous combustion

products

: Decomposition products may include the following materials:

Carbon oxides

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Nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus

Special protective equipment

for fire-fighters

: Use personal protective equipment.

Specific extinguishing

methods

: 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. 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 : Stop leak if safe to do so. Contain spillage, and then collect with noncombustible 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. Wash hands thoroughly after handling. Do not mix with bleach or other chlorinated products - will cause chlorine gas.

Conditions for safe storage

: Keep away from strong bases. Keep out of reach of children. Store in

suitable labeled containers.

: 0 °C to 40 °C Storage temperature

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Ingredients with workplace control parameters

| Ingredients     | CAS-No.   | Form of exposure                            | Permissible concentration | Basis     |
|-----------------|-----------|---|---------------------------|-----------|
| Phosphoric acid | 7664-38-2 | TWA   | 1 mg/m3                   | ACGIH     |
|                 |           | STEL  | 3 mg/m3                   | ACGIH     |
|                 |           | TWA   | 1 mg/m3                   | NIOSH REL |
|                 |           | STEL  | 3 mg/m3                   | NIOSH REL |
|                 |           | TWA   | 1 mg/m3                   | OSHA Z1   |
| iodine          | 7553-56-2 | TWA<br>(Inhalable<br>fraction and<br>vapor) | 0.01 ppm                  | ACGIH     |
|                 |           | Ceiling                                     | 0.1 ppm                   | NIOSH REL |

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|                 |          |                          | 1 mg/m3             |           |
|-----------------|----------|--------------------------|---------------------|-----------|
|                 |          | С                        | 0.1 ppm<br>1 mg/m3  | OSHA Z1   |
|                 |          | STEL (Vapor and aerosol) | 0.1 ppm             | ACGIH     |
| 2-butoxyethanol | 111-76-2 | TWA                      | 20 ppm              | ACGIH     |
|                 |          | TWA                      | 5 ppm<br>24 mg/m3   | NIOSH REL |
|                 |          | TWA                      | 50 ppm<br>240 mg/m3 | OSHA Z1   |

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.

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

degradation or chemical breakthrough.

Skin protection : Wear suitable 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**

Product AS SOLD Product AT USE DILUTION

Appearance : liquid liquid

Color : dark brown pale red-brown

Odor : slight iodine

pH : 1.75, (100 %) 3.0 - 5.0

Flash point : Not applicable
Odor 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) : No data available
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapor pressure : No data available

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Relative vapor density : No data available

Relative density : 1.077

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

octanol/water

Molecular weight

Autoignition temperature : No data available Thermal decomposition : No data available Viscosity, kinematic : No data available Explosive properties : No data available Oxidizing properties : No data available

VOC : No data available

## **SECTION 10. STABILITY AND REACTIVITY**

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: Do not mix with bleach or other chlorinated products – will cause

chlorine gas.

: No data available

Conditions to avoid : None known.

Incompatible materials Metals

Organic materials

**Bases** 

Hazardous decomposition

products

: Decomposition products may include the following materials:

Carbon oxides

Nitrogen oxides (NOx)

Sulfur oxides

Oxides of phosphorus

## **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. Harmful in contact with skin.

Ingestion : Causes digestive tract burns. Harmful if swallowed.

Inhalation : May cause nose, throat, and lung irritation. Harmful if inhaled.

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

### **Experience with human exposure**

: Redness, Pain, Corrosion Eye contact

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Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

**Toxicity** 

**Product** 

: Acute toxicity estimate : > 500 mg/kg Acute oral toxicity Acute inhalation toxicity : Acute toxicity estimate : > 1 mg/l

Acute dermal toxicity : Acute toxicity estimate : > 1,000 mg/kg

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

irritation

: No data available

Respiratory or skin

sensitization

: No data available

Carcinogenicity

**IARC** No component of this product present at levels greater than or equal

to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

**OSHA** No ingredient of this product present at levels greater than or equal to

0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or equal to

0.1% is identified as a known or anticipated carcinogen by NTP.

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

## **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

**Environmental Effects** : This product has no known ecotoxicological effects.

**Product** 

Toxicity to fish : No data available

Toxicity to daphnia and other

aquatic invertebrates

: 48 h LC50 Daphnia magna (Water flea): 22 mg/l

Toxicity to algae : No data available

Ingredients

Toxicity to fish : Alkylethoxy-propoxylates

96 h LC50: > 100 mg/l

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### **MIKROKLENE**

2-butoxyethanol 96 h LC50: 1,474 mg/l

Ingredients

Toxicity to algae : Phosphoric acid

72 h EC50 Desmodesmus subspicatus (green algae): > 100 mg/l

iodine

72 h EC50: 0.13 mg/l

2-butoxyethanol 72 h EC50: 911 mg/l

## Persistence and degradability

No data available

## **Bioaccumulative potential**

No data available

## Mobility in soil

No data available

#### Other adverse effects

No data available

# **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Product AS SOLD**

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

an approved waste handling site for recycling or disposal. Do not re-

use empty containers.

#### **Product AT USE DILUTION**

Attempt to use product completely in accordance with intended use.

Dispose of diluted product 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 (DOT)

UN number : 1805

Description of the goods : Phosphoric acid solution

Class : 8
Packing group : III
Environmentally hazardous : no

### Sea transport (IMDG/IMO)

UN number : 1805

Description of the goods : PHOSPHORIC ACID SOLUTION

Class : 8 Packing group : III

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Marine pollutant : no

### **SECTION 15. REGULATORY INFORMATION**

**EPA Registration number** : 1677-22

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

#### **CERCLA Reportable Quantity**

| Ingredients     | CAS-No.   | Component RQ (lbs) | Calculated product RQ |
|-----------------|-----------|--------------------|-----------------------|
|                 |           |                    | (lbs)                 |
| Phosphoric acid | 7664-38-2 | 5000               | 76365                 |

### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements

of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established

by SARA Title III, Section 313:

2-butoxyethanol 111-76-2 1.8036 %

### 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.

## The ingredients of this product are reported in the following inventories:

#### **United States TSCA Inventory:**

On TSCA Inventory

### Canadian Domestic Substances List (DSL):

All components of this product are on the Canadian DSL

# Australia Inventory of Chemical Substances (AICS) :

On the inventory, or in compliance with the inventory

### New Zealand. Inventory of Chemical Substances:

On the inventory, or in compliance with the inventory

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

not determined

### Japan. ISHL - Inventory of Chemical Substances (METI) :

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 in China (IECSC):

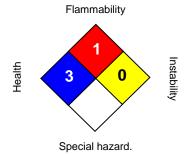
On the inventory, or in compliance with the inventory

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## **MIKROKLENE**

## SECTION 16. OTHER INFORMATION

#### NFPA:



#### HMIS III:

| HEALTH          | 3 |
|-----------------|---|
| FLAMMABILITY    | 1 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 =Slight, 2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

Issuing date : 04/21/2017

Version : 1.0

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 Material 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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