

## MIKROKLENE DF

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

Product name : MIKROKLENE DF

Other means of identification : Not applicable

Recommended use : Sanitizer - Food contact surface

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 : 08/06/2019

## **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Corrosive to Metals : Category 1
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 : May be corrosive to metals.

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

Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:** 

Keep only in original container. 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.

Response:

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce 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

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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. Absorb spillage to prevent material damage.

Storage:

Store locked up. Store in corrosive resistant container with a resistant

inner liner. **Disposal:** 

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

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

chlorine gas.

# **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Pure substance/mixture : Mixture

CAS-No. Concentration (%) **Chemical name** Oxirane, methyl-, polymer with oxirane, monobutyl 9038-95-3 10 - 30 ether 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.

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 : Not flammable or combustible.

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fighting

Hazardous combustion

products

: Decomposition products may include the following materials:

Carbon oxides

Nitrogen oxides (NOx) 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 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.

# **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. 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 strong bases. Keep out of reach of children. Store in

suitable labeled containers.

Storage temperature : 0 °C to 40 °C

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Ingredients with workplace control parameters

Components	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

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iodine	7553-56-2	TWA (Inhalable fraction and vapor)	0.01 ppm	ACGIH
		Ceiling	0.1 ppm 1 mg/m3	NIOSH REL
		С	0.1 ppm 1 mg/m3	OSHA Z1
		STEL (Vapour.)	0.1 ppm	ACGIH
2-butoxyethanol	111-76-2	TWA	20 ppm	ACGIH
		TWA	5 ppm 24 mg/m3	NIOSH REL
		TWA	50 ppm 240 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/ 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 : dark brown

Odor : slight

pH : 1.75, (100 %)

Flash point : Not applicable

Odor Threshold : No data available

Melting point/freezing point : No data available

Initial boiling point and

boiling range

: No data available

Evaporation rate : No data available Flammability (solid, gas) : No data available

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Upper explosion limit : No data available Lower explosion limit : No data available Vapor pressure No data available Relative vapor density : No data available

1.077 Relative density

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

octanol/water

Autoignition temperature

Thermal decomposition Viscosity, kinematic

Explosive properties Oxidizing properties Molecular weight

VOC

: No data available : No data available

: No data available : No data available

: No data available : No data available

: 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

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

chlorine gas.

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) 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 if swallowed. Causes digestive tract burns. Ingestion

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

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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 : Acute toxicity estimate : > 500 mg/kg
Acute inhalation toxicity : 4 h Acute toxicity estimate : > 1 mg/l

Test atmosphere: dust/mist

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

Skin corrosion/irritation : Corrosive

Serious eye damage/eye

irritation

: No data available

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

# **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

Environmental Effects : Harmful to aquatic life.

**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

Components

Toxicity to fish : 2-butoxyethanol

96 h LC50: 1,474 mg/l

Components

Toxicity to algae : Phosphoric acid

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

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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**

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

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 : 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
Marine pollutant : no

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# **SECTION 15. REGULATORY INFORMATION**

**EPA Registration number** : 1677-58

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

### **CERCLA Reportable Quantity**

Components	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 : Corrosive to Metals

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 : 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.

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

This regulation applies to this product.

Chemical Name	CAS-No.	Function	List(s)
water	7732-18-5	Diluent	Not Applicable
Oxirane, methyl-, polymer with	9038-95-3	Cleaning Agent	Not Applicable
oxirane, monobutyl ether			
Phosphoric acid	7664-38-2	Biocide	20
iodine	7553-56-2	Biocide	Not Applicable
2-butoxyethanol	111-76-2	Solvent	20

<sup>\*</sup>refer to ecolab.com/sds for electronic links to designated lists

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

# **United States TSCA Inventory:**

Listed on TSCA

#### Canadian Domestic Substances List (DSL):

This product contains one or several components that are not on the Canadian DSL nor NDSL.

# Australia Inventory of Chemical Substances (AICS) :

not determined

#### New Zealand. Inventory of Chemical Substances:

not determined

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# 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):

not determined

## China. Inventory of Existing Chemical Substances in China (IECSC):

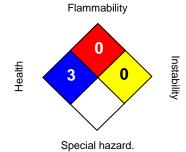
On the inventory, or in compliance with the inventory

#### Taiwan Chemical Substance Inventory (TCSI):

not determined

# **SECTION 16. OTHER INFORMATION**

## NFPA:



## HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

Issuing date : 08/06/2019

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.

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