# **Material Safety Data Sheet**

MIKROKLENE



### 1. Product and company identification

Trade name of product Product use	: MIKROKLENE : Sanitizer.
Product dilution information	n : Not applicable
Supplier's information	: Ecolab Inc. Institutional Division 370 N. Wabasha Street St. Paul, MN 55102 1-800-352-5326
Code	: 929422-03
Date of issue	: 16-May-2011
EPA Registration No.	: 1677-22
O	EMERGENCY HEALTH INFORMATION: 1-800-328-0026 Itside United States and Canada CALL 1-651-222-5352 (in USA)

# 2. Hazards identification

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	Product AS SOLD	Product AT USE DILUTION
Physical state	: Liquid.	Data not available - Refer to Product AS SOLD
Emergency overview	: DANGER !	
	CAUSES DIGESTIVE TRACT, EYE AND SKIN BURNS. CAUSES RESPIRATORY TRACT IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL IF ABSORBED THROUGH SKIN, SWALLOWED OR INHALED.	
	Do not ingest. Do not get in eyes, on skin or on clothing. Avoid breathing vapors, spray or mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.	
Potential acute h	ealth effects	
	Product AS SOLD	Product AT USE DILUTION
Eyes	: Corrosive to eyes.	Data not available - Refer to Product AS SOLD
Skin	: Corrosive to the skin. May cause sensitization by skin contact.	
Inhalation	: Severely irritating to the respiratory system.	
Ingestion	: Causes burns to mouth, throat and stomach.	

See toxicological information (section 11)

# 3. Composition/information on ingredients

#### Product AS SOLD

Name	<u>CAS number</u>	<u>% by weight</u>
phosphoric acid	7664-38-2	6.55
2-butoxyethanol	111-76-2	2
oxirane, methyl-, polymer with oxirane, monobutyl ether	9038-95-3	5 - 20
iodine	7553-56-2	2.00
Product AT USE DILUTION <u>Name</u> Data not available - Refer to Product AS SOLD	<u>CAS number</u>	<u>% by weight</u>

## 4. First aid measures

	Product AS SOLD Pro	oduct AT USE DILUTION
Eye contact		ata not available - Refer to Product AS DLD
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
Inhalation	: If inhaled, remove to fresh air. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel. Get medical attention.	
Ingestion	: If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.	
5 Fire-	fighting measures	

### 5. Fire-fighting measures

Product AS SOLD	
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus oxides halogenated compounds
Fire-fighting media and instructions	: Use an extinguishing agent suitable for the surrounding fire.
Special protective equipment for fire-fighters	<ul> <li>Dike area of fire to prevent runoff.</li> <li>In a fire or if heated, a pressure increase will occur and the container may burst.</li> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

Storage

### 6. Accidental release measures

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Personal precautions	<ul> <li>Product AS SOLD</li> <li>Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.</li> </ul>	<b>Product AT USE DILUTION</b> Data not available - Refer to Product AS SOLD
Environmental precautions	: Avoid contact of spilled material and runoff with soil and surface waterways.	
Methods for cleaning up	: Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a water rinse for final clean-up.	
7. Handl	ing and storage	
	Product AS SOLD	Product AT USE DILUTION
Handling	: Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or spray. Keep container closed. Use only with adequate ventilation.	Data not available - Refer to Product AS SOLD

### container. Keep container tightly closed. Do not store above the following temperature: 40°C 8. Exposure controls/personal protection

chlorine gas.

Wash thoroughly after handling. Do not mix with bleach or other chlorinated products - will cause

: Keep out of reach of children. Store in a closed

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Engineering measures	: Use only with adequate ventilation. If user operations	Product AT USE DILUTION Data not available - Refer to Product AS SOLD	
Personal protection			
Eyes	: Use chemical splash goggles. For continued or severe C exposure wear a face shield over the goggles. S	Data not available - Refer to Product AS SOLD	
Hands	: Use chemical-resistant, impervious gloves.		
Skin	: Wear suitable protective clothing.		
Respiratory	: Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.		
Ingredient	Exposure limits		

#### Exposure controls/personal protection 8.

PHOSPHORIC ACID ACGIH TLV (United States, 2/2010).	
	STEL: 3 mg/m <sup>3</sup> 15 minute(s).
	TWA: 1 mg/m³ 8 hour(s).
	OSHA PEL (United States, 6/2010).
	TWA: 1 mg/m³ 8 hour(s).
iodine	ACGIH TLV (United States, 2/2010).
	TWA: 0.01 ppm 8 hour(s). Form: Inhalable fraction and vapor
	STEL: 0.1 ppm 15 minute(s). Form: Vapor and aerosol
	OSHA PEL (United States, 6/2010).
	CEIL: 1 mg/m <sup>3</sup>
	CEIL: 0.1 ppm
	NIOSH REL (United States, 6/2009).
	CEIL: 0.1 ppm
	CEIL: 1 mg/m <sup>3</sup>
BUTOXYETHANOL	ACGIH TLV (United States, 2/2010).
	TWA: 20 ppm 8 hour(s).
	OSHA PEL (United States, 6/2010). Absorbed through skin.
	TWA: 240 mg/m <sup>3</sup> 8 hour(s).
	TWA: 50 ppm 8 hour(s).

#### Physical and chemical properties 9.

	Product AS SOLD	Product AT USE DILUTION
Physical state	: Liquid.	Data not available - Refer to Product AS SOLD
Flash point	: 93 °C (Closed cup)	
Color	: Brown [Dark]	
Odor	: Faint odor	
рН	: 1.75 [Conc. (% w/w): 100%]	

Relative density : 1.077

10. Stability and reactivity		
Product AS SOLD		
Stability	<ul> <li>The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.</li> </ul>	
Reactivity	<ul> <li>Highly reactive or incompatible with the following materials: alkalis. Reactive or incompatible with the following materials: metals. Slightly reactive or incompatible with the following materials: organic materials and moisture.</li> <li>Do not mix with bleach or other chlorinated products - will cause chlorine gas.</li> </ul>	
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.	

16 May 2011

### 11. Toxicological information

#### Potential acute health effects

	Product AS SOLD	Product AT USE DILUTION
Eyes	: Corrosive to eyes.	Data not available - Refer to Product AS SOLD
Skin	: Corrosive to the skin. May cause sensitization by skin contact.	
Inhalation	: Severely irritating to the respiratory system.	
Ingestion	: Causes burns to mouth, throat and stomach.	
Product AS SOL	.D	
<u>Other adverse e</u>	ffects	
Target organs	<ul> <li>Contains material which causes damage to Contains material which may cause damage lungs, liver, lymphatic system, cardiovascu nervous system (CNS).</li> </ul>	ge to the following organs: blood, kidneys,

### **12.** Ecological information

Ecotoxicity

: Not reported

### 13. Disposal considerations

·	Product AS SOLD	Product AT USE DILUTION
Waste disposal	: Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.	Data not available - Refer to Product AS SOLD
RCRA classification	: Unused product is D002 (Corrosive)	

### 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

Product AS SOLD	
DOT Classification	UN1805
DOT Proper shipping name	Phosphoric acid solution
Class	8
Packing group	III

For transport in bulk or using IMDG regulations, see shipping documents for specific transportation information.

Product AT USE DILUTION

SOLD

Data not available - Refer to Product AS

### 15. Regulatory information

#### Product AS SOLD

HCS : Corrosive material Classification Sensitizing material Target organ effects

Product AS SOLD

U.S. Federal regulations

**TSCA 8(b) inventory** 

- : All components are listed or exempted.
- EPA Registration No. : 1677-22

SARA 302/304/311/312 extremely hazardous substances: No listed substance SARA 302/304 emergency planning and notification: No listed substance

MIKROKLENE			16 May 2011	
15. Regulatory information				
<u>SARA 313</u>	Product name	<u>CAS number</u>	<b>Concentration</b>	
Form R - Reporting requirements	: 2-butoxyethanol	111-76-2	1.8037	

California Prop. 65

: No listed substance

### 16. Other information

**Product AS SOLD** 

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Hazardous Material Information System (U.S.A.)

Health	*	3
Flammability		0
Physical hazards		0

National Fire Protection Association (U.S.A.)



Date of issue	: 16-May-2011
Responsible name	: Regulatory Affairs
	1-800-352-5326

✓ Indicates information that has changed from previously issued version.

#### Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.