

MIKRO-BAC 3

## Section 1. Chemical product and company identification

**Product name** : MIKRO-BAC 3  
**Recommended use and restrictions** : disinfectant  
Use only for the purpose on the product label.

**Product dilution information** : Not applicable

**Supplier's information** : Ecolab Inc. Institutional Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-352-5326

**Code** : 920958-06

**Date of issue** : **11 Oct 2013**

**EPA Registration No.** : 303-223-1677

EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
Outside United States and Canada CALL 1-651-222-5352 (in USA)

## Section 2. Hazards identification

**GHS Classification** : **Product AS SOLD**  
ACUTE TOXICITY: ORAL - Category 4  
ACUTE TOXICITY: SKIN - Category 4  
ACUTE TOXICITY: INHALATION - Category 4  
SKIN CORROSION/IRRITATION - Category 1  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

### GHS label elements

**Signal word** : Danger

**Symbol** : 

**Hazard statements** : Harmful if swallowed, in contact with skin or if inhaled.  
Causes severe skin burns and eye damage.

### Precautionary statements

**Prevention** : Wear protective gloves. Wear eye or face protection. Wear protective clothing. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.

**Response** :

### **Product AT USE DILUTION**

Data not available - Refer to Product AS SOLD

## Section 2. Hazards identification

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. 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 or physician.

- Storage** : No other specific measures identified.
- Disposal** : See section 13 for waste disposal information.
- Other hazards** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Product AS SOLD**

Hazardous ingredients	Concentration Range (%)	CAS number
o-benzyl-p-chlorophenol	5.32	120-32-1
O-PHENYLPHENOL	3.55	90-43-7
GLYCOL	3	107-21-1
SODIUM HYDROXIDE	2	1310-73-2
sulfuric acid, mono-c10-16-alkyl esters, sodium salts	1 - 5	68585-47-7
ISOPROPYL ALCOHOL	1 - 5	67-63-0
p-tert-amylphenol	1.81	80-46-6

**Product AT USE DILUTION**

Hazardous ingredients	Concentration Range (%)	CAS number
Data not available - Refer to Product AS SOLD		

## Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
<b>Eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.	Data not available - Refer to Product AS SOLD
<b>Skin contact</b>	: Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
<b>Inhalation</b>	:	

## Section 4. First aid measures

- Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.
- Ingestion** : Get medical attention immediately. Rinse mouth. Do not induce vomiting.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If ventilation is inadequate, use respirator that will protect against dust/mist. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- See toxicological information (section 11)

## Section 5. Fire-fighting measures

Product AS SOLD

- Suitable fire extinguishing media** : Use water spray, fog or foam.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
halogenated compounds  
metal oxide/oxides
- Specific fire-fighting methods** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

- Product AS SOLD**
- Personal precautions** : 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.
- 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 tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.

**Product AT USE DILUTION**

Data not available - Refer to Product AS SOLD

## Section 7. Handling and storage

**Product AS SOLD**

**Handling** : Do not ingest. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.

**Storage** : Keep out of reach of children. Keep container tightly closed.

Store between the following temperatures: 0 and 30°C

**Product AT USE DILUTION**  
Data not available - Refer to Product AS SOLD

## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
GLYCOL	<b>ACGIH TLV (United States, 3/2012).</b> C: 100 mg/m <sup>3</sup> Form: Aerosol
SODIUM HYDROXIDE	<b>ACGIH TLV (United States, 3/2012).</b> C: 2 mg/m <sup>3</sup> <b>OSHA PEL (United States, 6/2010).</b> TWA: 2 mg/m <sup>3</sup> 8 hours. <b>NIOSH REL (United States, 6/2009).</b> CEIL: 2 mg/m <sup>3</sup>
ISOPROPYL ALCOHOL	<b>ACGIH TLV (United States, 3/2012).</b> STEL: 400 ppm 15 minutes. TWA: 200 ppm 8 hours. <b>OSHA PEL (United States, 6/2010).</b> TWA: 980 mg/m <sup>3</sup> 8 hours. TWA: 400 ppm 8 hours. <b>NIOSH REL (United States, 6/2009).</b> TWA: 400 ppm 10 hours. TWA: 980 mg/m <sup>3</sup> 10 hours. STEL: 500 ppm 15 minutes. STEL: 1225 mg/m <sup>3</sup> 15 minutes.

**Product AS SOLD**

**Appropriate engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

### Personal protection

**Eye protection** : Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

**Hand protection** : Use chemical-resistant, impervious gloves.

**Skin protection** : Use synthetic apron, other protective equipment as necessary to prevent skin contact.

**Respiratory protection** : Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.

**Product AT USE DILUTION**  
Data not available - Refer to Product AS SOLD

## Section 8. Exposure controls/personal protection

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

## Section 9. Physical and chemical properties

	Product AS SOLD
<b>Physical state</b>	: Liquid.
<b>Color</b>	: Brownish-red
<b>Odor</b>	: Phenolic
<b>pH</b>	: 12 to 13 (100%)
<b>Flash point</b>	: > 100°C
<b>Explosion limits</b>	: Not available.
<b>Flammability (solid, gas)</b>	: Not available.
<b>Melting point</b>	: Not available.
<b>Boiling point</b>	: >100°C (>212°F)
<b>Evaporation rate (butyl acetate = 1)</b>	: Not available.
<b>Vapor pressure</b>	: Not available.
<b>Vapor density</b>	: Not available.
<b>Relative density</b>	: 1.04 to 1.06 (Water = 1)
<b>Solubility</b>	: Not available.
<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.
<b>Odor threshold</b>	: Not available.
<b>Viscosity</b>	: Not available.

**Product AT USE DILUTION**  
Data not available - Refer to Product AS SOLD

## Section 10. Stability and reactivity

### Product AS SOLD

<b>Stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: No specific data.
<b>Materials to avoid</b>	: Slightly reactive or incompatible with the following materials: acids.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

**Route of exposure** : Skin contact, Eye contact, Inhalation, Ingestion

### Product AS SOLD

#### Symptoms

**Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness

**Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur

**Inhalation** : Adverse symptoms may include the following:  
coughing  
Respiratory tract irritation

**Ingestion** : Adverse symptoms may include the following:  
stomach pains

#### Acute toxicity

**Eye contact** : Causes serious eye damage.

**Skin contact** : Causes severe burns. Harmful in contact with skin.

**Inhalation** : Harmful if inhaled. May cause respiratory irritation.

**Ingestion** : Harmful if swallowed. May cause burns to mouth, throat and stomach.

### Product AT USE DILUTION

Data not available - Refer to Product AS SOLD

#### Toxicity data

##### Product/ingredient name

o-cresol, 4-chloro-alpha-phenyl-	LC50 Inhalation	Rat	19.8 mg/l
	Dusts and mists		
	LD50 Dermal	Rabbit	3200 mg/kg
biphenyl -2-ol	LD50 Oral	Rat	1700 mg/kg
	LD50 Dermal	Rat	>2000 mg/kg
	LD50 Oral	Rat	2733 mg/kg
ethanediol	LC50 Inhalation	Rat	2.725 mg/l
	Dusts and mists		
	LD50 Dermal	Rabbit	10600 mg/kg
sulfuric acid, mono-c10-16-alkyl esters, sodium salts	LD50 Oral	Rat	4700 mg/kg
	LD50 Dermal	Rat	>500 mg/kg
	LD50 Oral	Rat	2175 mg/kg
propan-2-ol	LC50 Inhalation	Rat	30 mg/l
	Vapor		
	LD50 Dermal	Rabbit	12870 mg/kg
	LD50 Oral	Rat	4710 mg/kg

#### Chronic toxicity

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

## Section 12. Ecological information

**Product AS SOLD**

**Ecotoxicity** : Water polluting material. May be harmful to the environment if released in large quantities. This material is toxic to aquatic life.

**Aquatic and terrestrial toxicity**

Product/ingredient name	Result	Species	Exposure
Not available.			

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : 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.

**RCRA classification** : Unused product is D002 (Corrosive)

**Product AT USE DILUTION**  
Data not available - Refer to Product AS SOLD

## Section 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.

**DOT**

**DOT Classification** : UN1903

**DOT Proper shipping name** : Disinfectants, liquid, corrosive n.o.s. (Ortho-benzyl-para-chlorophenol)

**Class** : 8

**Packing group** : III

**IMO/IMDG**

**IMO/IMDG Classification** : UN1903

**IMO/IMDG Proper shipping name** : DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Ortho-benzyl-para-chlorophenol). Marine pollutant

**Class** : 8

**Packing group** : III

For transport in bulk, see shipping documents for specific transportation information.

**Product AT USE DILUTION**  
Not intended for transport.

## Section 15. Regulatory information

**Product AS SOLD**

**U.S. Federal regulations**

**TSCA 8(b) inventory** : All components are listed or exempted.

**EPA Registration No.** : 303-223-1677

**SARA 302/304/311/312 extremely hazardous substances**: No listed substance

**SARA 302/304 emergency planning and notification**: No listed substance

**SARA 313**

**Form R - Reporting requirements**

**Product name**

: o-cresol, 4-chloro-alpha-phenyl-biphenyl -2-ol ethanediol

**CAS number**

120-32-1  
90-43-7  
107-21-1

**Concentration**

5.32 - 5.6  
3.5323  
3.4

## Section 15. Regulatory information

**California Prop. 65** : WARNING: This product contains a chemical known to the State of California to cause cancer.

## Section 16. Other information

Product AS SOLD

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

Health	*	3
Flammability		0
Physical hazards		0

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



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1-800-352-5326

**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.