

# SAFETY DATA SHEET



## ANTIMICROBIAL FRUIT & VEGETABLE TREATMENT

### Section 1. Chemical product and company identification

**Product name** : ANTIMICROBIAL FRUIT & VEGETABLE TREATMENT  
**Recommended use and restrictions** : Sanitizer.

Use only for the purpose on the product label.

**Product dilution information** : Up to 1.0 oz/gal or 7.8 mL/L in water

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

**Code** : 913510

**Date of issue** : 16 Jan 2014

**EPA Registration No.** : 1677-234

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

### Section 2. Hazards identification

#### Product AS SOLD

**GHS Classification** : ACUTE TOXICITY: SKIN - Category 4  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A  
SKIN SENSITIZATION - Category 1

#### GHS label elements

**Signal word** : Warning

**Symbol** :



**Hazard statements** : Harmful in contact with skin.  
Causes serious eye irritation.  
May cause an allergic skin reaction.

#### Precautionary statements

**Prevention** : Wear eye or face protection. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Do not mix with bleach or other chlorinated products - will cause chlorine gas.

**Response** : IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists:

#### Product AT USE DILUTION

ACUTE TOXICITY: SKIN - Category 4

Warning



Harmful in contact with skin.

Wash thoroughly after handling.

IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Wash contaminated clothing before reuse.

## Section 2. Hazards identification

	Get medical attention.	
<b>Storage</b>	: No other specific measures identified.	No other specific measures identified.
<b>Disposal</b>	: See section 13 for waste disposal information.	See section 13 for waste disposal information.
<b>Other hazards</b>	: None known.	None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

### Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
SODIUM DODECYLBENZENESULFONATE	1	25155-30-0
LACTIC ACID	17.29	50-21-5
propanoic acid, 2-hydroxy-, (s)-	5 - 20	79-33-4
SODIUM BISULFATE	5 - 20	7681-38-1

### Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

## Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
<b>Eye contact</b>	: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.	No known effect after eye contact. Rinse with water for a few minutes.
<b>Skin contact</b>	: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If skin irritation or rash occurs: Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.	Wash with plenty of soap and water. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Inhalation</b>	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
<b>Ingestion</b>	: Get medical attention if symptoms occur.	Get medical attention if symptoms occur.
<b>Protection of first-aiders</b>	: 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
<b>Notes to physician</b>	: 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

<b>Suitable fire extinguishing media</b>	: Use water spray, fog or foam.
<b>Specific hazards arising from the chemical</b>	: In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	:

## Section 5. Fire-fighting measures

Decomposition products may include the following materials:  
 carbon dioxide  
 carbon monoxide  
 sulfur oxides  
 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

	<b>Product AS SOLD</b>	<b>Product AT USE DILUTION</b>
<b>Personal precautions</b>	: Use personal protective equipment as required.	Use personal protective equipment as required.
<b>Environmental precautions</b>	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
<b>Methods for cleaning up</b>	: Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

## Section 7. Handling and storage

	<b>Product AS SOLD</b>	<b>Product AT USE DILUTION</b>
<b>Handling</b>	: Do not ingest. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Do not mix with bleach or other chlorinated products - will cause chlorine gas. Wash thoroughly after 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.
<b>Storage</b>	: Keep out of reach of children. Keep container tightly closed.  Store between the following temperatures: 0 and 50°C	Keep out of reach of children.

## Section 8. Exposure controls/personal protection

**Control parameters**

Ingredient name	Exposure limits
None.	

	<b>Product AS SOLD</b>	<b>Product AT USE DILUTION</b>
<b>Appropriate engineering controls</b>	: 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.	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.
<b>Personal protection</b>		
<b>Eye protection</b>	: Wear eye protection.	No protective equipment is needed under normal use conditions.
<b>Hand protection</b>	: No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
<b>Skin protection</b>	:	

## Section 8. Exposure controls/personal protection

	No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
<b>Respiratory protection</b>	: A respirator is not needed under normal and intended conditions of product use.	A respirator is not needed under normal and intended conditions of product use.
<b>Hygiene measures</b>	: 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	Product AT USE DILUTION
<b>Physical state</b>	: Liquid.	Liquid.
<b>Color</b>	: Green [Dark]	Green [Light]
<b>Odor</b>	: Odorless	Odorless
<b>pH</b>	: 0.5 to 1 (100%)	2.1 to 3.2
<b>Flash point</b>	: >93.3 °C (Closed cup) Product does not support combustion.	> 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>	: 1.1006 to 1.1066 (Water = 1)	
<b>Solubility</b>	: Easily soluble in the following materials: cold water and hot water.	
<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>	: Dynamic (room temperature): 1000 mPa·s (1000 cP) Kinematic (room temperature): 9.0775665 cm <sup>2</sup> /s (907.75665 cSt)	

## 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>	: Reactive or incompatible with the following materials: metals and alkalis. Do not mix with bleach or other chlorinated products - will cause chlorine gas.

## Section 10. Stability and reactivity

**Hazardous decomposition products** : 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 or irritation  
watering  
redness

**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness

**Inhalation** : No specific data.

**Ingestion** : No specific data.

#### Acute toxicity

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

**Skin contact** : Harmful in contact with skin. May cause an allergic skin reaction.

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

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

### Product AT USE DILUTION

No specific data.

No specific data.

No specific data.

No specific data.

No known significant effects or critical hazards.

Harmful in contact with skin.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

#### Toxicity data

##### Product/ingredient name

propanoic acid, 2-hydroxy-, (s)-	LC50 Inhalation	Rat	>7.94 mg/l
	Dusts and mists		
	LD50 Dermal	Rabbit	>2000 mg/kg
Sodium bisulfate	LD50 Oral	Rat	3543 mg/kg
	LC50 Inhalation	Rat	>2.4 mg/l
	Dusts and mists		
sodium dodecylbenzene sulfonate	LD50 Oral	Rat	2140 mg/kg
	LD50 Dermal	Rat	>2000 mg/kg
	LD50 Oral	Rat	1086 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** : No known significant effects or critical hazards.

#### 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

**Product AS SOLD**

**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

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.

## 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** UN3265

**DOT Proper shipping name** Corrosive liquid, acidic, organic, n.o.s. (Lactic acid)

**Class** 8

**Packing group** III

### IMO/IMDG

**IMO/IMDG Classification** UN3265

**IMO/IMDG Proper shipping name** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Lactic acid)

**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.** : 1677-234

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

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

<u>SARA 313</u>	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
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<b>Form R - Reporting requirements</b>	: No listed substance		
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**California Prop. 65** : No listed substance

## Section 16. Other information

**Section 16. Other information**

Product AS SOLD

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

Health	*	2
Flammability		0
Physical hazards		0

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



Date of issue : 16 Jan 2014  
 Prepared by : Regulatory Affairs  
 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.**

Product AT USE DILUTION

Health		0
Flammability		0
Physical hazards		0

