

# Material Safety Data Sheet

KEYSTONE ANTIBACTERIAL FOAM HAND SOAP



## 1. Product and company identification

Trade name of product : KEYSTONE ANTIBACTERIAL FOAM HAND SOAP

Product use : Skin antiseptic

Product dilution information : Not applicable

Supplier's information : Ecolab Co.  
5105 Tomken Road  
Mississauga ON L4W 2X5  
1-800-352-5326

Code : 901410-01

Date of issue : 25-November-2013

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

## 2. Hazards identification

### Product AS SOLD

Physical state : Liquid.

Emergency overview : WARNING!

FLAMMABLE LIQUID AND VAPOUR.  
May cause mild eye irritation.  
Avoid contact with eyes. Keep away from heat, sparks and flame. Keep container tightly closed. Use only with adequate ventilation.

Routes of entry : Skin contact, Eye contact, Inhalation, Ingestion

### Potential acute health effects

### Product AS SOLD

Eyes : May cause mild eye irritation.

Skin : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

### Product AT USE DILUTION

Product is sold ready to use.

### Product AT USE DILUTION

Product is sold ready to use.

See toxicological information (Section 11)

## 3. Composition/information on ingredients

### Product AS SOLD

Name	CAS number	% by weight
POTASSIUM COCOATE	61789-30-8	5- 10
ALCOHOL	64-17-5	1 - 5
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts	68585-34-2	1 - 5
HEXYLENE GLYCOL	107-41-5	1 - 5
BORIC ACID	10043-35-3	0.1 - 1
TRICLOSAN	3380-34-5	0.3

### Product AT USE DILUTION

Name	CAS number	% by weight
Product is sold ready to use.		

## 4. First-aid measures

Product AS SOLD		Product AT USE DILUTION
<b>Eye contact</b>	: Rinse with water for a few minutes.	Product is sold ready to use.
<b>Skin contact</b>	: Get medical attention if symptoms appear.	
<b>Inhalation</b>	: No special measures required. Treat symptomatically.	
<b>Ingestion</b>	: Get medical attention if symptoms occur.	

## 5. Fire-fighting measures

### Product AS SOLD

<b>Auto-ignition temperature</b>	: Not available.
<b>Flammable limits</b>	: Not available.
<b>Hazardous thermal decomposition products</b>	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
<b>Special remarks on fire hazards</b>	: Not available.
<b>Special remarks on explosion hazards</b>	: Not available.
<b>Fire-fighting media and instructions</b>	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.  Use water spray to keep fire-exposed containers cool. Dyke area of fire to prevent runoff.  Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

Product AS SOLD		Product AT USE DILUTION
<b>Personal precautions</b>	: No special measures required.	Product is sold ready to use.
<b>Environmental precautions</b>	: Avoid contact of large amounts of spilt material and runoff with soil and surface waterways.	
<b>Methods for cleaning up</b>	: Absorb with an inert material. Use a water rinse for final clean-up.	

## 7. Handling and storage

Product AS SOLD		Product AT USE DILUTION
<b>Handling</b>	: Keep away from heat, sparks and flame. To avoid fire, eliminate ignition sources. Wash hands after handling.	Product is sold ready to use.
<b>Storage</b>	: Keep out of reach of children. Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Store in a closed container. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).  Store between the following temperatures: 5 and 50°C	

## 8. Exposure controls/personal protection

Product AS SOLD			Product AT USE DILUTION		
<b>Engineering measures</b> : No special ventilation requirements.			Product is sold ready to use.		
<b>Personal protection</b>					
<b>Eyes</b> : No special protection is required.			Product is sold ready to use.		
<b>Hands</b> : No special protection is required.					
<b>Skin</b> : No special protection is required.					
<b>Respiratory</b> : No special protection is required.					

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
ethanol	US ACGIH 3/2012 AB 4/2009 BC 4/2012 ON 7/2010 QC 9/2011	- 1000 -	- 1880 -	-	1000 -	-	-	- -	-	-	
2-methylpentane-2,4-diol	US ACGIH 3/2012 AB 4/2009 BC 4/2012 ON 7/2010 QC 9/2011	- 1000 -	- 1880 -	-	- -	-	-	25 25 25 25	121 121 -	[3]	
boric acid	US ACGIH 3/2012 BC 4/2012 ON 7/2010	- -	- 2	25	121 6	- 6	-	- -	- -	[a] [b]	[1][3][4] [a]

[1]Absorbed through skin. [3]Skin sensitisation [4]Respiratory sensitisation

Form: [a]Inhalable fraction [b]Inhalable

## 9. Physical and chemical properties

Product AS SOLD			Product AT USE DILUTION		
<b>Physical state</b> : Liquid.			Product is sold ready to use.		

<b>Physical state</b>	: Liquid.
<b>Flash point</b>	: 46 °C (Closed cup)
<b>Colour</b>	: Blue.
<b>Odour</b>	: citrus
<b>pH</b>	: 8.6 [Conc. (% w/w): 100%]
<b>Boiling/condensation point</b>	: Not available.
<b>Melting/freezing point</b>	: Not available.
<b>Relative density</b>	: 1.01
<b>Vapour pressure</b>	: Not available.
<b>Vapour density</b>	: Not available.
<b>Odour threshold</b>	: Not available.
<b>Evaporation rate</b>	: Not available.
<b>Viscosity</b>	: Kinematic (room temperature): 0 cm²/s (0 cSt)
<b>Dispersibility properties</b>	: Not available.
<b>Solubility</b>	: Not available.
<b>LogK<sub>ow</sub></b>	: Not available.

## 10. Stability and reactivity

### Product AS SOLD

**Stability** : The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.

**Conditions of instability** : Not available.

**Reactivity** : Not available.

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Hazardous polymerisation** : Under normal conditions of storage and use, hazardous polymerisation will not occur.

## 11. Toxicological information

### Potential acute health effects

#### Product AS SOLD

**Eyes** : May cause mild eye irritation.

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

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

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

#### Product AT USE DILUTION

Product is sold ready to use.

### Product AS SOLD

### Potential chronic health effects

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

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

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

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

**Sensitization to Product** : No known significant effects or critical hazards.

**Synergistic products (toxicologically)** : Not available.

### Toxicity data

Product/ingredient name	Test	Route	Result	Species
ethanol	LD50	Dermal	15800 mg/kg	Rabbit
	LD50	Oral	10470 mg/kg	Rat
	LC50	Inhalation	117 mg/l	Rat
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts	LD50	Dermal	>2000 mg/kg	Rat
2-methylpentane-2,4-diol	LD50	Oral	>2500 mg/kg	Rat
	LD50	Dermal	>2000 mg/kg	Rat
	LD50	Oral	>2000 mg/kg	Rat
	LC50	Inhalation	>1.1 mg/l	Rat
boric acid	LD50	Dermal	>2000 mg/kg	Rabbit
	LD50	Oral	>2600 mg/kg	Rat
	LC50	Inhalation	2.12 mg/l	Rat

### Other adverse effects

**Target organs** : There is no known chronic effect after exposure to this product.

## 12. Ecological information

Ecotoxicity : Not reported

## 13. Disposal considerations

**Product AS SOLD**  
**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.

**Product AT USE DILUTION**

Product is sold ready to use.

## 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**

**TDG**

**TDG Classification** Not regulated.

**IMO/IMDG**

**IMO/IMDG Classification** Not regulated.

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

## 15. Regulatory information

**Product AS SOLD**  
**WHMIS** : Not controlled under WHMIS.  
 DIN: 02244052

**Product AT USE DILUTION**

Product is sold ready to use.

**Canada inventory** : All components are listed or exempted.

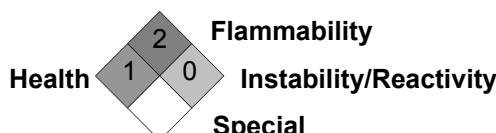
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## 16. Other information

**Product AS SOLD**  
**Hazardous Material** :  
**Information System (U.S.A.)**

Health	*	1
Flammability		2
Physical hazards		0

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



## 16. Other information

Date of issue : 25-November-2013

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.