

# 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 : 11-April-2012

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 : CAUTION!

COMBUSTIBLE LIQUID AND VAPOUR.  
May cause mild eye irritation.

Avoid contact with eyes. Keep away from heat, sparks and flame.

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.

See toxicological information (Section 11)

**Product AT USE DILUTION**

Product is sold ready to use.

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## 3. Composition/information on ingredients

### **Product AS SOLD**

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
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

### **Product AT USE DILUTION**

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
Product is sold ready to use.		

## 4. First-aid measures

	Product AS SOLD
<b>Eye contact</b>	: Rinse with water for a few minutes.
<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.

**Product AT USE DILUTION**  
Product is sold ready to use.

## 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.

Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

<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.
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## 6. Accidental release measures

	Product AS SOLD
<b>Personal precautions</b>	: No special measures required.
<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.

**Product AT USE DILUTION**  
Product is sold ready to use.

## 7. Handling and storage

	Product AS SOLD
<b>Handling</b>	: Keep away from heat, sparks and flame. To avoid fire, eliminate ignition sources. Wash hands after handling.
<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). Do not store above the following temperature: 50°C

**Product AT USE DILUTION**  
Product is sold ready to use.

## 8. Exposure controls/personal protection

**Product AS SOLD**  
**Engineering measures** : No special ventilation requirements.

### Personal protection

**Eyes** : No special protection is required.  
**Hands** : No special protection is required.  
**Skin** : No special protection is required.  
**Respiratory** : No special protection is required.

### Product AT USE DILUTION

Product is sold ready to use.

Product is sold ready to use.

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	Notations
ethanol	US ACGIH 2/2010	-	-	-	1000	-	-	-	-	-	
	AB 4/2009	1000	1880	-	-	-	-	-	-	-	
	BC 9/2010	-	-	-	1000	-	-	-	-	-	
	ON 7/2010	-	-	-	1000	-	-	-	-	-	
	QC 6/2008	1000	1880	-	-	-	-	-	-	-	
2-methylpentane-2,4-diol	US ACGIH 2/2010	-	-	-	-	-	-	25	121	-	
	AB 4/2009	-	-	-	-	-	-	25	121	-	[3]
	BC 9/2010	-	-	-	-	-	-	25	-	-	
	ON 7/2010	-	-	-	-	-	-	25	121	-	
	QC 6/2008	-	-	-	25	121	-	-	-	-	
boric acid	US ACGIH 2/2010	-	2	-	-	6	-	-	-	-	[a]
	BC 9/2010	-	2	-	-	6	-	-	-	-	[b]
	ON 7/2010	-	2	-	-	6	-	-	-	-	[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**  
**Physical state** : Liquid.  
**Flash point** : 46 °C (Closed cup)  
**Colour** : Blue.  
**Odour** : citrus  
**pH** : 8.6 [Conc. (% w/w): 100%]  
**Boiling/condensation point** : Not available.  
**Melting/freezing point** : Not available.  
**Relative density** : 1.01  
**Vapour pressure** : Not available.  
**Vapour density** : Not available.  
**Odour threshold** : Not available.  
**Evaporation rate** : Not available.  
**Viscosity** : Not available.  
**Dispersibility properties** : Not available.  
**Solubility** : Not available.  
**LogK<sub>ow</sub>** : Not available.

### Product AT USE DILUTION

Product is sold ready to use.

## 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** : Contains material which may cause reproductive effects, based on animal data.
- 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	Oral	7 g/kg	Rat
	LD50	Oral	10.5 mL/kg	Mouse
	LD50	Oral	15010 mg/kg	Rat
	LC50	Inhalation	124700 mg/m3	Rat
	LC50	Inhalation	5900 mg/m3	Rat
	LC50	Inhalation	20000 ppm	Rat
2-methylpentane-2,4-diol	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 Classification** Not regulated.

For transport in bulk or using IMDG regulations, 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.)** :



**Date of issue** : 11-April-2012  
**Responsible name** : Regulatory Affairs  
 1-800-352-5326

▣ Indicates information that has changed from previously issued version.

Notice to reader

## 16. Other information

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.