

Material Safety Data Sheet

KEYSTONE FOAM HAND SANITIZER



1. Product and company identification

Trade name of product : KEYSTONE FOAM HAND SANITIZER
Product use : Hand disinfectant

Product dilution information : Not applicable

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

Code : 924680-06

Date of issue : 09-December-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.

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>
BENZALKONIUM CHLORIDE	68424-85-1	0.1
ISOPROPYL ALCOHOL	67-63-0	5- 10
PROPYLENE GLYCOL	57-55-6	0.5 - 1.5

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
Eye contact	: Rinse with water for a few minutes.
Skin contact	: Get medical attention if symptoms appear.
Inhalation	: No special measures required. Treat symptomatically.
Ingestion	: Get medical attention if symptoms occur.

Product AT USE DILUTION
Product is sold ready to use.

5. Fire-fighting measures

Product AS SOLD

Auto-ignition temperature	: Not available.
Flammable limits	: Not available.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special remarks on fire hazards	: Not available.
Special remarks on explosion hazards	: Not available.
Fire-fighting media and instructions	: Use dry chemical, CO ₂ , 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.
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.

6. Accidental release measures

	Product AS SOLD
Personal precautions	: No special measures required.
Environmental precautions	: Avoid contact of large amounts of spilt material and runoff with soil and surface waterways.
Methods for cleaning up	: 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
Handling	: Keep away from heat, sparks and flame. To avoid fire, eliminate ignition sources. Wash hands after handling.
Storage	: Keep out of reach of children. Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Store between the following temperatures: 0 and 45°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

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Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m ³	Other	ppm	mg/m ³	Other	ppm	mg/m ³	Other	Notations
propan-2-ol	US ACGIH 3/2012	200	-	-	400	-	-	-	-	-	
	AB 4/2009	200	492	-	400	984	-	-	-	-	
	BC 4/2012	200	-	-	400	-	-	-	-	-	
	ON 7/2010	200	-	-	400	-	-	-	-	-	
	QC 9/2011	400	983	-	500	1230	-	-	-	-	
propylene glycol	ON 7/2010	-	10	-	-	-	-	-	-	-	[a]
	ON 7/2010	50	155	-	-	-	-	-	-	-	[b]

Form: [a]Aerosol only. [b]Vapour and aerosol.

9. Physical and chemical properties

Product AS SOLD

Physical state : Liquid.
Flash point : 42 °C (Closed cup)
Colour : Red [Light]
Odour : Alcohol-like
pH : 5 to 9 [Conc. (% w/w): 100%]
Boiling/condensation point : >100°C (>212°F)
Melting/freezing point : Not available.
Relative density : 0.988
Vapour pressure : Not available.
Vapour density : Not available.
Odour threshold : Not available.
Evaporation rate : Not available.
Viscosity : Kinematic (room temperature): 0 cm²/s (0 cSt)
Dispersibility properties : Easily dispersible in the following materials: cold water and hot water.
Solubility : Easily soluble in the following materials: cold water and hot water.
LogK_{ow} : 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

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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
propan-2-ol	LD50	Dermal	12870 mg/kg	Rabbit
	LD50	Oral	4710 mg/kg	Rat
	LC50	Inhalation	30 mg/l	Rat
propylene glycol	LD50	Dermal	>2000 mg/kg	Rabbit
	LD50	Oral	22000 mg/kg	Rat
	LC50	Inhalation	>158.5 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

Product AT USE DILUTION

WHMIS : Not controlled under WHMIS.
DIN: 02246427

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	1
Physical hazards	0

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



Date of issue : 09-December-2013
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.**