

SAFETY DATA SHEET

QUIK-CARE AEROSOL FOAM HAND SANITIZER

Section 1. Chemical product and company identification

Product name : QUIK-CARE AEROSOL FOAM HAND SANITIZER

Recommended use and restrictions : Skin antiseptic

Use only for the purpose on the product label.

Product dilution information : Not applicable

Supplier's information : Ecolab Inc. Healthcare Division
370 N. Wabasha St.
St. Paul, MN 55102
1-866-781-8787

Code : 901103-08

Date of issue : 11 Jul 2013

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**
FLAMMABLE AEROSOLS. - Category 1
GASES UNDER PRESSURE - Compressed gas
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Narcotic effects] - Category 3

GHS label elements

Signal word : Danger

Symbol :

Hazard statements : Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
Causes eye irritation.
May cause drowsiness and dizziness.

Precautionary statements

Prevention : Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Pressurized container: Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Intentional misuse by deliberate inhalation may be harmful or fatal. No special protection is required.

Response :

Product AT USE DILUTION

Product is sold ready to use.

Section 2. Hazards identification

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. If eye irritation persists: Get medical attention.

- Storage** : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.
- 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
ALCOHOL	>50	64-17-5
ISOBUTANE	1 - 5	75-28-5
GLYCERIN	1 - 5	56-81-5
HYDROFLUOROCARBON 152A	1 - 5	75-37-6

Product AT USE DILUTION

Hazardous ingredients	Concentration Range (%)	CAS number
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Product is sold ready to use.

Section 4. First aid measures

- Product AS SOLD**
- Eye contact** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse with water for a few minutes.
 - Skin contact** : Get medical attention if symptoms appear.
 - Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if you feel unwell.
 - Ingestion** : Get medical attention if symptoms occur.
 - 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.
 - Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Product AT USE DILUTION

Product is sold ready to use.

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	: Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds carbonyl halides
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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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		Product AT USE DILUTION Product is sold ready to use.
Personal precautions	: No special measures required.	
Environmental precautions	: Avoid contact of large amounts of spilled 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.	

Section 7. Handling and storage

Product AS SOLD		Product AT USE DILUTION Product is sold ready to use.
Handling	: Store and use away from heat, sparks, open flame or any other ignition source. Liquid and vapor under pressure. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight. Wash hands after handling.	
Storage	: Keep out of reach of children. Keep container tightly closed. Keep container tightly closed and sealed until ready for use. Keep container in a cool, well-ventilated area. Avoid all possible sources of ignition (spark or flame). Do not puncture or incinerate container. Store between the following temperatures: 0 and 40°C	

Section 8. Exposure controls/personal protection

Control parameters	
Ingredient name	Exposure limits
ALCOHOL	ACGIH TLV (United States, 3/2012). STEL: 1000 ppm 15 minutes. OSHA PEL (United States, 6/2010). TWA: 1900 mg/m ³ 8 hours. TWA: 1000 ppm 8 hours. NIOSH REL (United States, 6/2009). TWA: 1000 ppm 10 hours. TWA: 1900 mg/m ³ 10 hours.
ISOBUTANE	ACGIH TLV (United States, 3/2012). TWA: 1000 ppm 8 hours. NIOSH REL (United States, 6/2009). TWA: 800 ppm 10 hours. TWA: 1900 mg/m ³ 10 hours.
GLYCERIN	OSHA PEL (United States, 6/2010). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust ACGIH TLV (United States, 3/2012). TWA: 10 mg/m ³ 8 hours.
HYDROFLUOROCARBON 152A	AIHA WEEL (United States, 10/2011). TWA: 1000 ppm 8 hours.

<p>Product AS SOLD</p> <p>Appropriate engineering controls : No special ventilation requirements.</p> <p>Personal protection</p> <p>Eye protection : No special protection is required.</p> <p>Hand protection : No special protection is required.</p> <p>Skin protection : No special protection is required.</p> <p>Respiratory protection : No special protection is required.</p> <p>Hygiene measures : No special measures required.</p>	<p>Product AT USE DILUTION</p> <p>Product is sold ready to use.</p>
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Section 9. Physical and chemical properties

<p>Product AS SOLD</p> <p>Physical state : Aerosol</p> <p>Color : White</p> <p>Odor : Alcohol-like</p> <p>pH : 6.4 to 6.7 (100%)</p> <p>Flash point : Not applicable.</p> <p>Explosion limits : Not available.</p> <p>Flammability (solid, gas) : Not available.</p> <p>Melting point : Not available.</p> <p>Boiling point : Not available.</p> <p>Evaporation rate (butyl acetate = 1) : Not available.</p> <p>Vapor pressure : Not available.</p> <p>Vapor density : Not available.</p>	<p>Product AT USE DILUTION</p> <p>Product is sold ready to use.</p>
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Section 9. Physical and chemical properties

Relative density : 0.88 to 0.9 (Water = 1)
 Solubility : Not available.
 Partition coefficient: : Not available.
 n-octanol/water
 Auto-ignition : Not available.
 temperature
 Decomposition : Not available.
 temperature
 Odor threshold : Not available.
 Viscosity : Not available.

Aerosol product

Type of aerosol : Spray
 Heat of combustion : 16.24 kJ/g
 Ignition distance : Not available.
 Flame height : Not available.
 Flame duration : Not available.

Section 10. Stability and reactivity

Product AS SOLD

Stability : The product is stable.
 Possibility of hazardous : Under normal conditions of storage and use, hazardous reactions will not occur.
 reactions
 Conditions to avoid : Avoid all possible sources of ignition (spark or flame).
 Materials to avoid : Not available.
 Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition products
 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:
 irritation
 watering
 redness
 Skin contact : No specific data.
 Inhalation : Adverse symptoms may include the following:
 respiratory tract irritation
 coughing
 nausea or vomiting
 headache
 drowsiness/fatigue
 dizziness/vertigo
 unconsciousness
 Ingestion : No specific data.
Acute toxicity
 Eye contact : Causes eye irritation.
 Skin contact : No known significant effects or critical hazards.
 Inhalation :

Product AT USE DILUTION

Product is sold ready to use.

Section 11. Toxicological information

Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. Intentional misuse by deliberate inhalation may be harmful or fatal.

Ingestion : Can cause central nervous system (CNS) depression.



Toxicity data

Product/ingredient name

ethanol	LC50 Inhalation Vapor	Rat	117 mg/l
	LD50 Dermal	Rabbit	15800 mg/kg
	LD50 Oral	Rat	10470 mg/kg
glycerin	LC50 Inhalation Dusts and mists	Rat	>2.75 mg/l
	LD50 Dermal	Rabbit	23000 mg/kg
	LD50 Oral	Rat	18300 mg/kg
difluoroethane	LC50 Inhalation Gas.	Rat	>437500 ppm

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
ethanol	Acute LC50 11000 mg/l	Fish	96 hours
glycerin	Acute LC50 855 mg/l	Fish	96 hours

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

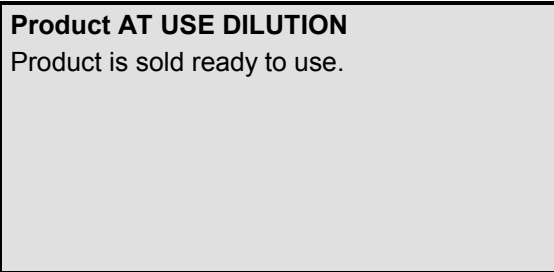
Section 13. Disposal considerations

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. Do not puncture or incinerate container. Discard empty container in trash.

Product AT USE DILUTION

Product is sold ready to use.



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 UN1950
 DOT Proper shipping name Aerosols, flammable
 Class 2.1
 Packing group -

IMO/IMDG

IMO/IMDG Classification UN1950
 IMO/IMDG Proper shipping name AEROSOLS, FLAMMABLE
 Class 2.1
 Packing group -

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.
 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>
Form R - Reporting requirements	: No listed substance		

California Prop. 65 : No listed substance

Section 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.) :



Section 16. Other information

NFPA Aerosol Level : Level 1

Date of issue : 11 Jul 2013

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.**