

SAFETY DATA SHEET

DIGISAN HEALTHCARE HAND SANITIZER FOAM

Section 1. Chemical product and company identification

Product name : DIGISAN HEALTHCARE HAND SANITIZER FOAM
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. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326

Code : 901103-04

Date of issue : 25 Nov 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
ethanol	62.5	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
Product is sold ready to use.		

Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
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.	Product is sold ready to use.
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.	
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**
- 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.

Product AT USE DILUTION

Product is sold ready to use.

Section 7. Handling and storage

- Product AS SOLD**
- 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

Product AT USE DILUTION

Product is sold ready to use.

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.

Product AS SOLD
Appropriate engineering controls : No special ventilation requirements.

Personal protection

Eye protection : No special protection is required.
Hand protection : No special protection is required.
Skin protection : No special protection is required.
Respiratory protection : No special protection is required.

Hygiene measures : No special measures required.

Product AT USE DILUTION

Product is sold ready to use.

Section 9. Physical and chemical properties

Product AS SOLD

Physical state : Aerosol
Color : White
Odor : Alcohol-like
pH : 6.4 to 6.7 (100%)
Flash point : Not applicable.
Explosion limits : Not available.
Flammability (solid, gas) : Not available.
Melting point : Not available.
Boiling point : Not available.
Evaporation rate (butyl acetate = 1) : Not available.
Vapor pressure : Not available.
Vapor density : Not available.

Product AT USE DILUTION

Product is sold ready to use.

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 temperature : Not available.

Decomposition temperature : Not available.

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 reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame).

Materials to avoid : Not available.

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:
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
Not available.			

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

Section 13. Disposal considerations

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.

RCRA classification : Unused product is D001 (Ignitable)

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

Section 14. Transport information

Packing group

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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

SARA 313

Product name

CAS number

Concentration

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.) :



NFPA Aerosol Level : Level 1

Date of issue

: 25 Nov 2013

Prepared by

: Regulatory Affairs

1-800-352-5326

Notice to reader

Section 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.