

Material Safety Data Sheet



DIGISAN AEROSOL FOAM HAND SANITIZER

Section 1. Chemical product and company identification

Trade name : DIGISAN AEROSOL FOAM HAND SANITIZER
Product use : Skin antiseptic
Supplier : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326
Code : 901103-01
Date of issue : 13-February-2008

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

Section 2. Composition, information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
ethanol	64-17-5	>50
isobutane	75-28-5	1 - 5
glycerin	56-81-5	1 - 5
difluoroethane	75-37-6	1 - 5

Section 3. Hazards identification

Physical state : Liquid. [Aerosol.]
Emergency overview : DANGER!
EXTREMELY FLAMMABLE.
VAPOR MAY CAUSE FLASH FIRE.
CONTENTS UNDER PRESSURE.
Intentional misuse by deliberate inhalation may be harmful or fatal.
May cause mild eye irritation.
Avoid contact with eyes. Avoid all possible sources of ignition (spark or flame). Keep away from heat and direct sunlight. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight. Keep container closed.

Potential acute health effects

Eyes : May cause mild eye irritation.
Skin : Slightly irritating to the skin.
Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

See toxicological information (section 11)

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists.
Skin contact : Get medical attention if symptoms appear. Wash clothing before reuse.
Inhalation : If inhaled, remove to fresh air.
Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. If irritation persists, get medical attention.

Section 5. Fire fighting measures

Flash point	: Not applicable.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides halogenated compounds carbonyl halides metal oxide/oxides
Fire-fighting media and instructions	: Use an extinguishing agent suitable for the surrounding fire. Use water spray to keep fire-exposed containers cool. Containers may explode when heated. Ruptured cylinders may rocket. Dike area of fire to prevent runoff. Extremely flammable. 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. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Bursting aerosol containers may be propelled from a fire at high speed. 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.

Section 6. Accidental release measures

Personal precautions	: Immediately contact emergency personnel. Eliminate all ignition sources. Use suitable protective equipment. Keep unnecessary personnel away. Do not touch or walk through spilled material.
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Methods for cleaning up	: For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container.

Section 7. Handling and storage

Handling	: Avoid contact with eyes. Keep away from heat, sparks and flame. To avoid fire, eliminate ignition sources. Do not puncture or incinerate container. Wash hands after handling.
Storage	: Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Do not puncture or incinerate container. Avoid all possible sources of ignition (spark or flame). Do not store above the following temperature: 40°C

Section 8. Exposure controls, personal protection

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.

Name

ethanol

Exposure limits

ACGIH TLV (United States, 1/2007).

TWA: 1880 mg/m³ 8 hour(s).

TWA: 1000 ppm 8 hour(s).

OSHA PEL (United States, 11/2006).

TWA: 1900 mg/m³ 8 hour(s).

TWA: 1000 ppm 8 hour(s).

isobutane

ACGIH TLV (United States, 1/2007).

TWA: 1000 ppm 8 hour(s).

glycerin

ACGIH TLV (United States, 1/2007).

TWA: 10 mg/m³ 8 hour(s). Form: Mist
OSHA PEL (United States, 11/2006).
 TWA: 5 mg/m³ 8 hour(s). Form: Respirable fraction
 TWA: 15 mg/m³ 8 hour(s). Form: Total dust

Section 9. Physical and chemical properties

Physical state : Liquid. [Aerosol.]
 Color : White.
 Odor : Alcohol-like.
 pH : Not applicable.
 Specific gravity : 0.88 to 0.9

Section 10. Stability and reactivity

Stability : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Potential acute health effects

Eyes : May cause mild eye irritation.
 Skin : Slightly irritating to the skin.
 Inhalation : No known significant effects or critical hazards.
 Ingestion : No known significant effects or critical hazards.

Potential chronic health effects

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

Section 12. Ecological information

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Waste classification : Unused product is D001 (Ignitable)

Consult your local or regional authorities.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification	-	Consumer commodity	ORM-D	-	Not available.

APPLIES ONLY DURING ROAD TRANSPORT

Any variation of the shipping description based on the packaging is not addressed.

Section 15. Regulatory information

HCS Classification : Flammable aerosol

U.S. Federal regulations : **United States inventory (TSCA 8b)**: All materials are listed or exempt.
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.

California Prop. 65 : No products were found.

Section 16. Other information

Hazardous Material Information System (U.S.A.)	Health	1
	Flammability	2
	Physical hazards	0

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Responsible name : Regulatory Affairs

Date of previous issue : 25-September-2007.

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.