# SAFETY DATA SHEET

DIGISAN HEALTHCARE HAND SANITIZER FOAM

## Section 1. Chemical product and company identification

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
<td>DIGISAN HEALTHCARE HAND SANITIZER FOAM</td>
</tr>
<tr>
<td><strong>Recommended use and restrictions</strong></td>
<td>Skin antiseptic</td>
</tr>
<tr>
<td><strong>Product dilution information</strong></td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GHS Classification</strong></td>
<td>Product AS SOLD: FLAMMABLE AEROSOLS. - Category 1</td>
</tr>
<tr>
<td></td>
<td>GASES UNDER PRESSURE - Compressed gas</td>
</tr>
<tr>
<td></td>
<td>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B</td>
</tr>
<tr>
<td></td>
<td>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Narcotic effects] -</td>
</tr>
<tr>
<td></td>
<td>Category 3</td>
</tr>
<tr>
<td><strong>Product AT USE DILUTION</strong></td>
<td>Product is sold ready to use.</td>
</tr>
</tbody>
</table>

**GHS label elements**
- **Signal word:** Danger
- **Symbol:**
  - Flammable
  - Eye hazard
  - Warning

**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.
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

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Hazardous ingredients</th>
<th>Concentration Range (%)</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product AS SOLD</td>
<td>ethanol</td>
<td>62.5</td>
<td>64-17-5</td>
</tr>
<tr>
<td>Product AT USE DILUTION</td>
<td>ISOBUTANE</td>
<td>1 - 5</td>
<td>75-28-5</td>
</tr>
<tr>
<td>Product AT Sale</td>
<td>GLYERIN</td>
<td>1 - 5</td>
<td>56-81-5</td>
</tr>
<tr>
<td>Product AT Sale</td>
<td>HYDROFLUOROCARBON 152A</td>
<td>1 - 5</td>
<td>75-37-6</td>
</tr>
</tbody>
</table>

Section 4. First aid measures

**Eye contact**
- Product AS SOLD: 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**
- Product AT USE DILUTION: Get medical attention if symptoms appear.

**Inhalation**
- Product AT USE DILUTION: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if you feel unwell.

**Ingestion**
- Product AT USE DILUTION: 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

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALCOHOL</td>
<td>ACGIH TLV (United States, 3/2012). STEL: 1000 ppm 15 minutes.</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL (United States, 6/2010). TWA: 1900 mg/m³ 8 hours.</td>
</tr>
<tr>
<td></td>
<td>NIOSH REL (United States, 6/2009). TWA: 1900 mg/m³ 10 hours.</td>
</tr>
<tr>
<td>ISOBUTANE</td>
<td>ACGIH TLV (United States, 3/2012). TWA: 1000 ppm 8 hours.</td>
</tr>
<tr>
<td></td>
<td>NIOSH REL (United States, 6/2009). TWA: 800 ppm 10 hours.</td>
</tr>
<tr>
<td></td>
<td>TWA: 1900 mg/m³ 10 hours.</td>
</tr>
<tr>
<td>GLYCERIN</td>
<td>OSHA PEL (United States, 6/2010). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction</td>
</tr>
<tr>
<td></td>
<td>TWA: 15 mg/m³ 8 hours. Form: Total dust</td>
</tr>
<tr>
<td>HYDROFLUOROCARBON 152A</td>
<td>ACGIH TLV (United States, 3/2012). TWA: 10 mg/m³ 8 hours.</td>
</tr>
<tr>
<td></td>
<td>AIHA WEEL (United States, 10/2011). TWA: 1000 ppm 8 hours.</td>
</tr>
</tbody>
</table>

Control parameters

<table>
<thead>
<tr>
<th>ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Product AS SOLD</td>
</tr>
<tr>
<td></td>
<td>Appropriate engineering controls: No special ventilation requirements.</td>
</tr>
<tr>
<td></td>
<td>Personal protection: No special protection is required.</td>
</tr>
<tr>
<td></td>
<td>No special protection is required.</td>
</tr>
<tr>
<td></td>
<td>No special protection is required.</td>
</tr>
<tr>
<td></td>
<td>No special protection is required.</td>
</tr>
<tr>
<td></td>
<td>Hygiene measures: No special measures required.</td>
</tr>
</tbody>
</table>

Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Product AS SOLD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Odor</td>
<td>Alcohol-like</td>
</tr>
<tr>
<td>pH</td>
<td>6.4 to 6.7 (100%)</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Evaporation rate (butyl acetate = 1)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

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.
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

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

**Toxicity data**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LC50 Inhalation</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanol</td>
<td>Rat</td>
<td>117 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LC50 Oral</td>
<td>Rabbit</td>
<td>10470 mg/kg</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>15800 mg/kg</td>
</tr>
<tr>
<td>glycerin</td>
<td>LC50 Inhalation</td>
<td>Rat</td>
<td>&gt;2.75 mg/l</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>23000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>18300 mg/kg</td>
</tr>
<tr>
<td>difluoroethane</td>
<td>LC50 Inhale</td>
<td>Rat</td>
<td>&gt;437500 ppm</td>
</tr>
</tbody>
</table>

**Chronic toxicity**

<table>
<thead>
<tr>
<th>Carcinogenicity</th>
<th>Mutagenicity</th>
<th>Teratogenicity</th>
<th>Developmental effects</th>
<th>Fertility effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Section 12. Ecological information

**Product AS SOLD**

Ecotoxicity: No known significant effects or critical hazards.

**Aquatic and terrestrial toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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.

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 -

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

<table>
<thead>
<tr>
<th>SARA 313</th>
<th>Product name</th>
<th>CAS number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form R - Reporting requirements</td>
<td>No listed substance</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.) :

Flammability
Health 2
Instability/Reactivity
Special

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.