

Material Safety Data Sheet



DIGISAN E FOAM HAND SANITIZER

Section 1. Chemical product and company identification

Trade name : DIGISAN E FOAM HAND SANITIZER
Product use : Hand disinfectant
Supplier : Ecolab Co.
5105 Tomken Road
Mississauga ON L4W 2X5
1-800-352-5326
Code : 924680-04
Date of issue : 25-June-2007

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 % by weight</u> | |
|------------------|-------------------------------|-----------|
| propan-2-ol | 67-63-0 | 5- 10 |
| propylene glycol | 57-55-6 | 0.5 - 1.5 |

Section 3. Hazards identification

Physical state : Liquid. [Liquid.]
Emergency overview : CAUTION!
COMBUSTIBLE LIQUID AND VAPOUR.
MAY CAUSE EYE IRRITATION.
Avoid contact with eyes. Keep away from heat, sparks and flame.
Routes of entry : Skin contact, Eye contact, Inhalation, Ingestion
Potential acute health effects
Eyes : Slightly irritating to the eyes.
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)

Section 4. First-aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
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

Auto-ignition temperature : Not available.
Flash point : 41.6667 °C (Closed cup)
Flammable limits
Upper: Not available.
Lower: Not available.
Products of combustion : Not available.
Fire-fighting media and instructions : In case of fire, use water spray (fog), foam, dry chemical, or CO₂.

Dyke liquid for later disposal.

Combustible liquid and vapour.

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.

Risk of explosion of the product in the presence of mechanical impact: Not available.

Risk of explosion of the product in the presence of static discharge: Not available.

Section 6. Accidental release measures

Personal Precautions : Ventilate area of leak or spill. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment (Section 8). Stop leak if without risk. Do not allow to enter drains or watercourses.

Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up : If emergency personnel are unavailable, contain spilt material. For small spills, add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion-proof means to transfer material to a sealable, appropriate container for disposal. For large spills, dyke spilt material or otherwise contain material to ensure runoff does not reach a waterway. Place spilt material in an appropriate container for disposal.

Section 7. Handling and storage

Handling : Keep away from heat, sparks and flame. To avoid fire, eliminate ignition sources. Wash thoroughly after handling.

Storage : Keep out of the 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

Section 8. Exposure controls, personal protection

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protection :

Eyes : No protective equipment is needed under normal use conditions.

Hands : No protective equipment is needed under normal use conditions.

Skin : No protective equipment is needed under normal use conditions.

Respiratory : No protective equipment is needed under normal use conditions.

Name

propan-2-ol

Exposure limits

ACGIH TLV (United States, 1/2006).

STEL: 400 ppm 15 minute(s).

TWA: 200 ppm 8 hour(s).

Section 9. Physical and chemical properties

Physical state : Liquid. [Liquid.]

Colour : Red. [Light]

Odour : Alcohol-like.

pH : 7 [Conc. (% w/w): 100%]

Boiling/condensation point : >100°C (>212°F)

Melting/freezing point : Not available.

Specific gravity : 0.988

Vapour pressure : Not available.

Vapour density : Not available.

Odour threshold : Not available.

Evaporation rate : Not available.

LogK_{ow} : Not available.

Dispersibility properties : Easily dispersed in cold water, hot water.

Solubility : Easily soluble in cold water, hot water.

Section 10. Stability and reactivity

Stability : The product is stable.

Conditions of instability : Not available.

Reactivity : Not available.

Hazardous Decomposition Products : Not available.

Section 11. Toxicological information

Potential acute health effects

Eyes : Slightly irritating to the eyes.

Skin : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Irritancy of Product : Hazardous by WHMIS criteria.

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

| <u>Ingredient name</u> | <u>Test</u> | <u>Route</u> | <u>Result</u> | <u>Species</u> |
|------------------------|-------------|--------------|---------------|----------------|
| propan-2-ol | LD50 | Dermal | 12800 mg/kg | Rabbit |
| | LD50 | Oral | 6410 mg/kg | Rabbit |
| | LD50 | Oral | 5000 mg/kg | Rat |
| | LD50 | Oral | 3600 mg/kg | Mouse |
| propylene glycol | LD50 | Dermal | 20800 mg/kg | Rabbit |
| | LD50 | Oral | 20 g/kg | Rat |
| | LD50 | Oral | 20300 mg/kg | Mouse |
| | LD50 | Oral | 18500 mg/kg | Rabbit |
| | LD50 | Oral | 18350 mg/kg | Guinea pig |
| | LDLo | Oral | 20000 mg/kg | Rabbit |

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

Section 12. Ecological information

Ecotoxicity

| <u>Ingredient name</u> | <u>Species</u> | <u>Period</u> | <u>Result</u> |
|------------------------|----------------|---------------|------------------------|
| propan-2-ol | Fish | 48 hours | Acute EC50 10000 mg/L |
| | Fish | 96 hours | Acute LC50 10400 mg/L |
| | Fish | 96 hours | Acute LC50 11130 mg/L |
| | Fish | 96 hours | Acute LC50 9640 mg/L |
| | Fish | 96 hours | Acute LC50 6550 mg/L |
| | Fish | 96 hours | Acute LC50 >1400 mg/L |
| propylene glycol | Daphnia | 48 hours | Acute EC50 >10000 mg/L |
| | Fish | 96 hours | Acute LC50 55770 |

| | | |
|------|----------|-----------------------------|
| Fish | 96 hours | mg/L Acute LC50 >62000 |
| Fish | 96 hours | mg/L Acute LC50 710 mg/L |

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt 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.

Consult your local or regional authorities.

Section 14. Transport information

| Regulatory information | UN number | Proper shipping name | Class | Packing group | Additional information |
|------------------------------|----------------|----------------------|-------|---------------|------------------------|
| TDG Classification | Not regulated. | - | - | - | - |

APPLIES ONLY DURING ROAD TRANSPORT

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

Section 15. Regulatory information

WHMIS : Not a WHMIS controlled material.
DIN 02242842

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*.

Section 16. Other information

Date of issue : 25-June-2007.
Responsible name : Regulatory Affairs
Date of previous issue : 16-February-2005.

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.