## 1. Identification

Product identifier
Other means of identification
$\quad$ Product code
Recommended use
Recommended restrictions
Manufacturer/Importer/Supplier/D
Manufacturer
Manufacturer
Company name
Address
Contact person
Telephone number
Fax
E-mail
Emergency telephone \#
2. Hazard(s) identification

Physical hazards
Health hazards
Environmental hazards
OSHA defined hazards
Label elements

## Signal word

Hazard statement
Precautionary statement
Prevention

Foaming Instant Hand Sanitizer

HIL00410
Instant Hand Sanitizer
None known.

HILLYARD INDUSTRIES
302 North Fourth St.
St. Joseph, MO 64501
Regulatory Affairs
(816) 233-1321 (Ext. 8285)
(816) 383-8485
regulatoryaffairs@hillyard.com
(800) 424-9300
(Only in the event of chemical emergency involving a spill, leak, fire, exposure, or accident involving chemicals.)

## 2. Hazard(s) identification

(

Response 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 advice/attention. In case of fire: Use appropriate media to extinguish.

## Storage Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations. Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements.
Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.
None.

Hazard(s) not otherwise classified (HNOC)
Supplemental information
closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
Flammable liquids
Serious eye damage/eye irritation
Not classified.
Not classified.


Danger
Highly flammable liquid and vapor. Causes serious eye irritation.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

## 3. Composition/information on ingredients

Mixtures

| Material name: Foaming Instant Hand Sanitizer | SDS US |
| :--- | :--- |
| HIL00410 Version \#: 01 Issue date: $04-10-2015$ |  |


| Chemical name | Common name and synonyms | CAS number | $\%$ |
| :--- | :---: | :---: | :---: |
| Ethanol | $64-17-5$ | $60-<70$ |  |
| Glycerine USP 99.7\% | $56-81-5$ | $1-<3$ |  |
| Other components below reportable levels |  | $30-<40$ |  |

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

## Inhalation

Skin contact
Eye contact

## Ingestion

## Most important

symptoms/effects, acute and delayed
Indication of immediate medical attention and special treatment needed

## General information

## 5. Fire-fighting measures

## Suitable extinguishing media

## Unsuitable extinguishing

 mediaSpecific hazards arising from the chemical

## Special protective equipment and precautions for firefighters Fire fighting equipment/instructions <br> Specific methods <br> General fire hazards

Move to fresh air. Call a physician if symptoms develop or persist.
If skin irritation or rash occurs, discontinue use.
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Rinse mouth. Get medical attention if symptoms occur.
Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Irritation of nose and throat. Coughing.

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Alcohol resistant foam. Water fog. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Do not use water jet as an extinguisher, as this will spread the fire.

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials. Highly flammable liquid and vapor.

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

## Methods and materials for containment and cleaning up

## Environmental precautions

## 7. Handling and storage

Precautions for safe handling

Conditions for safe storage, including any incompatibilities

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

Occupational exposure limits

| US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) <br> Components | Value | Form |  |
| :--- | :--- | :--- | :--- |
| Ethanol (CAS 64-17-5) | PEL | $1900 \mathrm{mg} / \mathrm{m} 3$ |  |
| Glycerine USP 99.7\% (CAS PEL 1000 ppm |  |  |  |
| 56-81-5) |  | $5 \mathrm{mg} / \mathrm{m} 3$ | Respirable fraction. |
| US. ACGIH Threshold Limit Values Type $15 \mathrm{mg} / \mathrm{m} 3$ | Total dust. |  |  |
| Components | STEL | Value |  |
| Ethanol (CAS 64-17-5) | Type | 1000 ppm |  |
| US. NIOSH: Pocket Guide to Chemical Hazards   <br> Components TWA Value |  |  |  |
| Ethanol (CAS 64-17-5) |  | $1900 \mathrm{mg} / \mathrm{m} 3$ |  |
|  |  | 1000 ppm |  |

Biological limit values
Appropriate engineering controls

No biological exposure limits noted for the ingredient(s).
Ensure adequate ventilation, especially in confined areas.
Material name: Foaming Instant Hand Sanitizer
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Individual protection measures, such as personal protective equipment
Eye/face protection Avoid contact with eyes.
Skin protection
Hand protection Not applicable.
Other Not applicable.
Respiratory protection Not applicable.
Thermal hazards
General hygiene
Not applicable.
When using do not smoke. Keep away from food and drink. considerations

## 9. Physical and chemical properties

| Appearance | Clear, slightly yellow liquid |
| :---: | :---: |
| Physical state | Liquid. |
| Form | Liquid. |
| Color | Colourless to light yellow. |
| Odor | Pleasant odor |
| Odor threshold | Not available |
| pH | 6-7 |
| Melting point/freezing point | Not available |
| Initial boiling point and boiling range | $178{ }^{\circ} \mathrm{F}\left(81.11^{\circ} \mathrm{C}\right)$ |
| Flash point | $72.0{ }^{\circ} \mathrm{F}\left(22.2{ }^{\circ} \mathrm{C}\right)$ Tag Closed Cup |
| Evaporation rate | < 1 Ethyl ether = 1 |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or explosive limits |  |
| Explosive limit - lower (\%) | Not available. |
| Explosive limit - upper (\%) | Not available. |
| Vapor pressure | 30.84 mm Hg |
| Vapor density | $1.32 \mathrm{AIR}=1$ |
| Relative density | 0.886 at $77^{\circ} \mathrm{F}$ |
| Solubility(ies) |  |
| Solubility (water) | complete |
| Partition coefficient (n-octanol/water) | Not available |
| Auto-ignition temperature | Not available |
| Decomposition temperature | Not available |
| Viscosity | Not available |
| Other information |  |
| Density | $7.38 \mathrm{lb} / \mathrm{gal}$ |
| Explosive limit | Not available |
| Percent volatile | 96-98\% |
| VOC (Weight \%) | Not available |

## 10. Stability and reactivity

Reactivity
Chemical stability
Possibility of hazardous

## reactions

Conditions to avoid
Incompatible materials

The product is stable and non-reactive under normal conditions of use, storage and transport.
Material is stable under normal conditions.
Hazardous polymerization does not occur.
Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Strong oxidizing agents.
Hazardous decomposition No hazardous decomposition products are known.

## 11. Toxicological information

## Information on likely routes of exposure

| Inhalation | Prolonged inhalation may be harmful. |
| :--- | :--- |
| Skin contact | No adverse effects due to skin contact are expected. |
| Eye contact | Causes serious eye irritation. |
| Ingestion | Expected to be a low ingestion hazard. |

Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects
Acute toxicity
Product

## Species

Test Results
Foaming Instant Hand Sanitizer

| Acute <br> Inhalation <br> LC50 | Mouse |  |
| :--- | :--- | :--- |
|  | Rat | $62.8566 \mathrm{mg} / \mathrm{l}, 4$ Hours estimated |
| Oral | Guinea pig | $32234.1484 \mathrm{ppm}, 10$ Hours estimated |
| LD50 | Mouse | $9.0256 \mathrm{~g} / \mathrm{kg}$ estimated |
|  | Rabbit | $5559.7773 \mathrm{mg} / \mathrm{kg}$ estimated |
|  | Rat | $5357.1431 \mathrm{~g} / \mathrm{kg}$ estimated |
|  | Species | $9.9735 \mathrm{~g} / \mathrm{kg}$ estimated |
| Components |  | Test Results |

Ethanol (CAS 64-17-5)

## Acute

Inhalation

| LC50 | Mouse | $39 \mathrm{mg} / \mathrm{l}, 4$ Hours |
| :--- | :--- | :--- |
| Oral | Rat | $20000 \mathrm{ppm}, 10$ Hours |
| LD50 | Guinea pig |  |
|  | Mouse | $5.6 \mathrm{~g} / \mathrm{kg}$ |
|  | Rat | $3450 \mathrm{mg} / \mathrm{kg}$ |
|  |  | $6.2 \mathrm{~g} / \mathrm{kg}$ |

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye Causes serious eye irritation. irritation
Respiratory or skin sensitization
Respiratory sensitization Not a respiratory sensitizer.
Skin sensitization This product is not expected to cause skin sensitization.
Germ cell mutagenicity $\quad$ No data available to indicate product or any components present at greater than $0.1 \%$ are mutagenic or genotoxic.
Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.
Reproductive toxicity This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - Not classified.
single exposure

| Specific target organ toxicity - <br> repeated exposure | Not classified. |
| :--- | :--- |
| Aspiration hazard | Prolonged inhalation may be harmful. |
| Chronic effects | Prolonged inhalation may be harmful. |

## 12. Ecological information

| Ecotoxicity | The product is not classified as environmentally hazardous. However, this does not exclude the <br> possibility that large or frequent spills can have a harmful or damaging effect on the environment. |
| :--- | :--- |

Product Species Test Results

Foaming Instant Hand Sanitizer
Aquatic

| Crustacea | EC50 | Daphnia | $10785.582 \mathrm{mg} / \mathrm{l}, 48$ hours estimated |
| :---: | :--- | :--- | :--- |
| Fish | LC50 | Fish | $16007.5732 \mathrm{mg} / \mathrm{l}, 96$ hours estimated |
| Components |  | Species | Test Results |

Ethanol (CAS 64-17-5)
Aquatic

| Crustacea | EC50 |
| :--- | :--- |
| Fish | LC50 |

Water flea (Daphnia magna)
7.7-11.2 mg/l, 48 hours

Fathead minnow (Pimephales promelas) $>100 \mathrm{mg} / \mathrm{l}, 96$ hours
Glycerine USP 99.7\% (CAS 56-81-5)
Aquatic
Fish LC50

Rainbow trout,donaldson trout (Oncorhynchus mykiss)

51000-57000 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

## Bioaccumulative potential

Partition coefficient n -octanol / water (log Kow)
Ethanol
Glycerine USP 99.7\%
-1.76

## Mobility in soil

Other adverse effects

No data available.
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

Disposal instructions
Local disposal regulations
Hazardous waste code
Waste from residues / unused
products

Contaminated packaging

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not contaminate ponds, waterways or ditches with chemical or used container. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with local/regional/national/international regulations.
Dispose in accordance with all applicable regulations.
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

DOT

| UN number | UN1170 |
| :---: | :---: |
| UN proper shipping name | ETHANOL SOLUTIONS |
| Transport hazard class(es) |  |
| Class | 3 |
| Subsidiary risk | - |
| Label(s) | 3 |

Packing group
II
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Special provisions 24, IB2, T4, TP1
Packaging exceptions 150
Packaging non bulk 202
Packaging bulk 242
ERG number 127
DOT


General information
PACKAGES 1 LITER AND SMALLER ARE SHIPPED LIMITED QUANTITY OR ORM-D This material is regulated under IATA and IMDG regulations. Contact manufacturer for shipping instructions.

## 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List or Exempt.
This product is regulated by the FDA as an Over the Counter Drug Product. It is labeled in accordance with FDA regulations.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.
SARA 304 Emergency release notification
Not regulated.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.
Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No
SARA 302 Extremely hazardous substance
Not listed.
SARA 311/312 Hazardous No
chemical
SARA 313 (TRI reporting)
Not regulated.
Other federal regulations
Safe Drinking Water Act Not regulated.
(SDWA)
US state regulations
US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)
Not listed.
US. Massachusetts RTK - Substance List
Ethanol (CAS 64-17-5)
Glycerine USP 99.7\% (CAS 56-81-5)

| Material name: Foaming Instant Hand Sanitizer | SDS US |
| :--- | :--- |
| HIL00410 | Version \#: 01 Issue date: $04-10-2015$ |

## US. New Jersey Worker and Community Right-to-Know Act

Ethanol (CAS 64-17-5)
Glycerine USP 99.7\% (CAS 56-81-5)

## US. Pennsylvania Worker and Community Right-to-Know Law

Ethanol (CAS 64-17-5)
Glycerine USP 99.7\% (CAS 56-81-5)

## US. Rhode Island RTK

Not regulated.

## US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

## International Inventories

Country(s) or region Inventory name On inventory (yes/no)*
United States \& Puerto Rico Toxic Substances Control Act (TSCA) Inventory No
*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

| Issue date | $04-10-2015$ |
| :--- | :--- |
| Version \# | 01 |
| HMIS® ratings | Health: 2 <br> Flammability: 3 |
| Physical hazard: 0 |  |

