## 1. Product and Company Identification

| Product identifier | Sterillium® Comfort Gel |
| :--- | :--- |
| Other means of identification | Not available |
| Recommended use | Hand sanitizer |
| Recommended restrictions | None known. |
| Manufacturer | Hu-Friedy Mfg. Co., LLC |
|  | 3232 N. Rockwell |
|  | Chicago, IL 60618-5982 US |
|  | Phone: 773.975.6100 |
|  | Fax: 773.868.3599 |
|  | Emergency Phone: 1-800-535-5053 |
|  | Outside US: 001-352-323-3500 |

## 2. Hazards Identification

## Physical hazards <br> Health hazards

## Environmental hazards

OSHA defined hazards
Label elements

## Signal word

Hazard statement

## Precautionary statement

 PreventionResponse

Storage
Disposal
Hazard(s) not otherwise classified (HNOC)
Supplemental information

## Sterillium ${ }^{\circledR}$ Comfort Gel

Not available
Hand sanitizer
None known.
Hu-Friedy Mfg. Co., LLC
Chicago, IL 60618-5982 US
Phone: 773.975.6100
Emergency Phone: 1-800-535-5053
Outside US: 001-352-323-3500
Flammable liquids Category 2
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects
Not classified.
Not classified.


Danger
Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

Keep container tightly closed. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/eye protection/face protection. Avoid breathing mist or vapor. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention. 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. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. In case of fire: Use appropriate media to extinguish. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. 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. Not applicable.

## 3. Composition/Information on Ingredients

## Mixture

| Chemical name | Common name and synonyms | CAS number | $\%$ |
| :--- | :---: | :---: | :---: |
| Alcohol | $64-17-5$ | 85 |  |

## 4. First Aid Measures

| Inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON <br> CENTER or doctor/physician if you feel unwell. |
| :--- | :--- |
| Skin contact | Take off immediately all contaminated clothing. Wash with plenty of soap and water. |
| Eye contact | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if <br> present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. |
| Ingestion | Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately. <br> DO NOT induce vomiting. |
| Most important <br> symptoms/effects, acute and <br> delayed | Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with <br> eyes may cause temporary irritation. Skin irritation. Vapors have a narcotic effect and may cause <br> headache, fatigue, dizziness and nausea. May cause redness and pain. |
| Indication of immediate <br> medical attention and special <br> treatment needed | Provide general supportive measures and treat symptomatically. |
| General information | Ensure that medical personnel are aware of the material(s) involved, and take precautions to |
|  | protect themselves. |

## 5. Fire Fighting Measures

## Suitable extinguishing media

Unsuitable extinguishing media
Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

## Fire-fighting

 equipment/instructions Specific methodsGeneral fire hazards
Hazardous combustion products
Explosion data
Sensitivity to mechanical impact
Sensitivity to static discharge

Alcohol resistant foam. 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 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. 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.
Oxides of carbon.

Not available.

Not available.

## 6. Accidental Release Measures

## Personal precautions,

 protective equipment and emergency proceduresMethods and materials for containment and cleaning up

## Environmental precautions

Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
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. Stop the flow of material, if this is without risk.

Large Spills: 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: 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.

## 7. Handling and Storage

| Precautions for safe handling | Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect <br> material from direct sunlight. Do not smoke. Take precautionary measures against static <br> discharges. Avoid breathing mist or vapor. Avoid contact with eyes. Avoid contact with clothing. |
| :--- | :--- |
|  | Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective <br> equipment. Observe good industrial hygiene practices. Use care in handling/storage. |
| Conditions for safe storage, | Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build- <br> including any incompatibilities by using common bonding and grounding techniques. Eliminate sources of ignition. Store in a <br> cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from <br> incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers. |

## 8. Exposure Controls/Personal Protection



## 9. Physical and Chemical Properties

| Appearance | Clear |
| :--- | :--- |
| Physical state | Liquid. |
| Form | Gel |
| Color | Colorless |
| Odor | Alcohol |
| Odor threshold | Not available. |
| pH | Not available. |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling <br> range | $172.4^{\circ} \mathrm{F}\left(78^{\circ} \mathrm{C}\right)$ (Ethanol) |
| Pour point | Not available. |
| Specific gravity <br> Partition coefficient <br> (n-octanol/water) | Not available. |
| Flash point | Not available. |
| Evaporation rate | $45.0^{\circ} \mathrm{F}\left(7.2^{\circ} \mathrm{C}\right)$ |
| Flammability (solid, gas) | Not available. |

## Upper/lower flammability or explosive limits

Flammability limit - lower Not available.
(\%)
Flammability limit - upper Not available.
(\%)
Explosive limit - lower (\%) Not available.
Explosive limit - upper (\%) Not available.
Vapor pressure Not available.

Vapor density Not available.
Relative density Not available.
Solubility(ies) Fully miscible
Auto-ignition temperature Not available.
Decomposition temperature Not available.
Viscosity Not available.

|  | 10. Stability and Reactivity |
| :--- | :--- |
| Reactivity None known. <br> Possibility of hazardous <br> reactions No dangerous reaction known under conditions of normal use. <br> Chemical stability Material is stable under normal conditions. <br> Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the <br> flash point. Contact with incompatible materials. <br> Incompatible materials Caustics. Acids. Strong oxidizing agents. <br> Hazardous decomposition Oxides of carbon.  <br> products  |  |

## 11. Toxicological Information

## Routes of exposure

Inhalation. Ingestion. Skin contact. Eye contact.
Information on likely routes of exposure

| Ingestion | Expected to be a low ingestion hazard. |
| :--- | :--- |
| Inhalation | Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. <br> Prolonged inhalation may be harmful. May cause irritation to the respiratory system. |
| Skin contact | Causes skin irritation. |
| Eye contact | Causes serious eye irritation. |

Symptoms related to the Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May physical, chemical and cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. toxicological characteristics
Information on toxicological effects

| Acute toxicity | Narcotic effects. May cause respiratory irritation. Expected to be a low hazard for usual industrial or commercial handling by trained personnel. |  |
| :---: | :---: | :---: |
| Components | Species | Test Results |
| Alcohol (CAS 64-17-5) |  |  |
| Acute |  |  |
| Dermal |  |  |
| LD50 | Not available |  |
| Inhalation |  |  |
| LC50 | Mouse | $39 \mathrm{mg} / \mathrm{l}, 4$ Hours |
|  | Rat | 31623 ppm, 4 Hours |
|  |  | 20000 ppm, 10 Hours |
| Oral |  |  |
| LD50 | Dog | $5500 \mathrm{mg} / \mathrm{kg}$ |
|  | Guinea pig | $5600 \mathrm{mg} / \mathrm{kg}$ |
|  | Mouse | 3450 mg/kg |
|  | Rat | 7060 mg/kg |
| Skin corrosion/irritation | Causes skin irritation. |  |
| Exposure minutes | Not available. |  |


| Erythema value | Not available. |
| :---: | :---: |
| Oedema value | Not available. |
| Serious eye damage/eye irritation | Causes serious eye irritation. |
| Corneal opacity value | Not available. |
| Iris lesion value | Not available. |
| Conjunctival reddening value | Not available. |
| Conjunctival oedema value | Not available. |
| Recover days | Not available. |
| Respiratory or skin sensitization |  |
| Respiratory sensitization | Not classified. |
| Skin sensitization | This product is not expected to cause skin sensitization. |
| Germ cell mutagenicity | No data available to indicate product or any components present at greater than $0.1 \%$ are mutagenic or genotoxic. |
| Mutagenicity | 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. |
| Reproductive toxicity | Not classified. |
| Teratogenicity | Not available. |
| Specific target organ toxicity single exposure | Respiratory tract irritation. Narcotic effects. |
| Specific target organ toxicity repeated exposure | Not classified. |
| Aspiration hazard | Not classified. |
| Chronic effects | Prolonged inhalation may be harmful. |
| Further information | Not available. |
| Name of Toxicologically Synergistic Products | Not available. |

## 12. Ecological Information



## 13. Disposal Considerations

## Disposal instructions

Local disposal regulations
Hazardous waste code
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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.

Waste from residues / unused products

Contaminated packaging

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

| U.S. Department of Transportation (DOT) |  |
| :--- | :--- |
| Basic shipping requirements: |  |
| UN number | UN1170 |
| Proper shipping name | Ethanol |
| Hazard class | 3 |
| Packing group | II |
| Special provisions | 24, IB2, T4, TP1 |
| Packaging exceptions | ORM-D for containers <1L |
| Packaging non bulk | 202 |
| Packaging bulk | 242 |
| Transportation of Dangerous Goods (TDG - Canada) |  |
| Basic shipping requirements: |  |
| UN number | UN1170 |
| Proper shipping name | ETHANOL |
| Hazard class | 3 |
| Packing group | II |
| Packaging exceptions | Limited quantity 1L |
| DOT |  |



## 15. Regulatory Information

Canadian federal regulations
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.
Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

## Alcohol (CAS 64-17-5)

Canada WHMIS Ingredient Disclosure: Threshold limits
Alcohol (CAS 64-17-5)
1 TONNES
0.1 \%

Exempt - Notified cosmetic under the Food \& Drugs Act
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.
US CAA Section 111 Volatile Organic Compounds: Listed substance

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.
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
No
hazardous substance
SARA 311/312 Hazardous
No
chemical
SARA 313 (TRI reporting)
Not regulated.
Other federal regulations
Safe Drinking Water Act (SDWA)
Food and Drug
Administration (FDA)
US state regulations
Not regulated.
Not regulated.

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.

US - California Hazardous Substances (Director's): Listed substance

Alcohol (CAS 64-17-5) Listed.

US - California Proposition 65 - Carcinogens \& Reproductive Toxicity (CRT): Listed substance
Not listed.

US - Illinois Chemical Safety Act: Listed substance Alcohol (CAS 64-17-5)

Listed.
US - Louisiana Spill Reporting: Listed substance Alcohol (CAS 64-17-5)

Listed.
US - Minnesota Haz Subs: Listed substance Alcohol (CAS 64-17-5) Listed.
US - New Jersey RTK - Substances: Listed substance Alcohol (CAS 64-17-5) Listed.
US - Texas Effects Screening Levels: Listed substance Alcohol (CAS 64-17-5)

Listed.
US. Massachusetts RTK - Substance List Alcohol (CAS 64-17-5)

Listed.
US. Pennsylvania RTK - Hazardous Substances Alcohol (CAS 64-17-5)

Listed.

## US. Rhode Island RTK

 Not regulated.Inventory status

| Country(s) or region | Inventory name | On inventory (yes/no)* |
| :--- | :--- | ---: |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| United States \& Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |
| *A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) |  |  |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

## 16. Other Information

| LEGEND |  |
| :--- | :--- |
| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |


\(\left.$$
\begin{array}{ll}\text { Disclaimer } & \begin{array}{l}\text { The information in the sheet was written based on the best knowledge and experience currently } \\
\text { available. Information contained herein was obtained from sources considered technically accurate } \\
\text { and reliable. While every effort has been made to ensure full disclosure of product hazards, in } \\
\text { some cases data is not available and is so stated. Since conditions of actual product use are } \\
\text { beyond control of the supplier, it is assumed that users of this material have been fully trained } \\
\text { according to the requirements of all applicable legislation and regulatory instruments. No warranty, } \\
\text { expressed or implied, is made and supplier will not be liable for any losses, injuries or } \\
\text { consequential damages which may result from the use of or reliance on any information contained } \\
\text { in this document. }\end{array}
$$ <br>

12-September-2014\end{array}\right]\)| Issue date | 01-September-2014 |
| :--- | :--- |
| Effective date | 01-September-2017 |
| Expiry date | For an updated SDS, please contact the supplier/manufacturer listed on the first page of the <br> document. |
| Further information | Dell Tech Laboratories, Ltd. Phone: (519) 858-5021 |
| Prepared by | This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication <br> Other information |
|  | Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of |
| Chemicals (GHS). |  |
| This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard. |  |

