Product Name: STOKO GEL Instant Hand Sanitizer

Product Use: Skin Cleansing

Company Information

Evonik Stockhausen, Inc.
2401 Doyle Street
Greensboro, NC  27406

Non-Emergency #  800-242-2271
Emergency # (800) 424-9300 CHEMTREC (North America)
Emergency # (703) 527-3887 CHEMTREC (International, call collect)

General Comments

Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving the product. All Non-emergency questions should be directed to the Toll Free, Non-Emergency number above.

Emergency Overview

Components ethanol and isopropanol are severe eye irritants, resulting in corneal injury if not removed immediately. Prolonged inhalation may cause headache, eye, nose, and throat irritation, with possible central nervous system effects: depressant. Ingestion may cause birth defects (teratogen).

Potential Health Effects: Eyes

This product is irritating to the eyes and respiratory system.

Potential Health Effects: Skin

None.

Potential Health Effects: Ingestion

Seek medical attention.

Potential Health Effects: Inhalation

This product is irritating to the eyes and respiratory system.

HMIS Ratings:

Health: 2    Fire: 3    Reactivity: 0    Pers. Prot.: None required.

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe  * = Chronic hazard

CAS #          Component     Percent
64-17-5        Ethyl alcohol  62
67-63-0        Isopropyl alcohol  3

Component Information/Information on Non-Hazardous Components

This hand sanitizer is regulated by the US Food and Drug Administration. However, it is not exempt from EPA TSCA IUR reporting criteria. Employers must inform workers of the hazards of this product and provide worker training on safe handling procedures.
Material Safety Data Sheet

Product Name: STOKO GEL Instant Hand Sanitizer

See container label regarding proper handling and use of this product.
Ingredients are listed in descending order of concentration on the container label.
For OSHA workplace hazards, investigate and read and understand component MSDS’s before manufacturing.
Workplace Hazardous Materials Information System (WHIMS-Canada): Exempt-cosmetic hand cleaner

*** Section 4 - First Aid Measures ***

First Aid: Eyes
In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. If irritation persists get medical attention.

First Aid: Skin
None.

First Aid: Ingestion
If material is swallowed, get medical attention or advice.

First Aid: Inhalation
If inhaled, immediately remove the affected person to fresh air.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards
Component ethyl alcohol is highly flammable and a dangerous fire hazard when exposed to heat and/or flames. This product is a moderate fire hazard and explosion hazard when exposed to heat and/or flame.

Upper Flammable Limit (UFL): 19%
Lower Flammable Limit (LFL): 3.3%
Method Used: PMCC
Flash Point: 68°F
Flammability Classification: Flammable
Auto Ignition: Not determined

Hazardous Combustion Products
On thermal decomposition: oxides of carbon.

Extinguishing Media
Dry chemical, foam, carbon dioxide, water fog.

Fire Fighting Equipment/Instructions
Fire fighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products.

NFPA Ratings: Health: 2 Fire: 3 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures
Contain and remove all sources of ignition. Wear appropriate protective gear. Collect using suitable absorbent if needed.

Clean-Up Procedures
Absorb spill with inert material. Shovel material into appropriate container for disposal. Flush small residuals to the drain for normal biological wastewater treatment.

Evacuation Procedures
Treat as moderate fire and explosion hazard.

Special Procedures
Caution: Flammable material. Store in an appropriate hazardous materials storage facility.
**Section 7 - Handling and Storage**

Handling Procedures
Avoid eye contact and prolonged inhalation of vapors. Avoid prolonged contact with sensitive skin. Do not ingest.

Storage Procedures
Store in tightly closed container away from heat and oxidizing agents. Prevent freezing. Keep out of reach of children.

**Section 8 - Exposure Controls / Personal Protection**

Exposure Guidelines
A: General Product Information
FDA regulated.
For OSHA workplace hazards, investigate and read and understand component MSDS’s before manufacturing.
Workplace Hazardous Materials Information System (WHIMS-Canada): Exempt-cosmetic hand cleaner

B: Component Exposure Limits

<table>
<thead>
<tr>
<th>Ethyl alcohol (64-17-5)</th>
<th>OSHA: 1000 ppm TWA; 1900 mg/m3 TWA</th>
<th>ACGIH: 1000 ppm TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol (67-63-0)</td>
<td>OSHA: 400 ppm TWA; 980 mg/m3 TWA</td>
<td>ACGIH: 200 ppm TWA</td>
</tr>
</tbody>
</table>

Engineering Controls
None required for intended use.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face
Avoid eye contact.

Personal Protective Equipment: Skin
Avoid prolonged contact with sensitive skin.

Personal Protective Equipment: Respiratory
Avoid prolonged inhalation of vapors.

Personal Protective Equipment: General
Obey reasonable safety precautions and practice good housekeeping.

**Section 9 - Physical & Chemical Properties**

| Appearance: Clear, colorless gel | Odor: Perfume fragrance |
| Physical State: Gel | pH: 6.8 – 7.9 |
| Vapor Pressure: Ethanol comp. 40 mm Hg | Vapor Density: 1.6 (Air = 1) |
| Boiling Point: as ethanol: 78°C | Melting Point: Not Established |
| Solubility (H2O): Not Established | Specific Gravity: 0.9 g/cc³ |
| Flash Point: 68°F (PMCC) |  |
**Section 10 - Chemical Stability & Reactivity Information**

**Chemical Stability**
Stable under usual application conditions.

**Chemical Stability: Conditions to Avoid**
None.

**Incompatibility**
Oxidizers, including chlorine bleach and hydrogen peroxide. Acids, platinum and silver.

**Hazardous Decomposition**
On thermal decomposition oxides of carbon.

**Hazardous Polymerization**
Hazardous polymerization will not occur.

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**Section 11 - Toxicological Information**

**Acute and Chronic Toxicity**

**A: General Product Information**
Ethyl alcohol is irritating to the eyes, nose and respiratory system at very high vapor concentrations. Repeated ingestion of ethyl alcohol may result in liver damage.

**B: Acute Toxicity-LD50/LC50**

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>Inhalation: 124.7 mg/L/4H</td>
<td>Oral: 1501 mg/kg</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>Inhalation: 72.6 mg/L/4H</td>
<td>Oral: 4396 mg/kg; Dermal: 12800 mg/kg</td>
</tr>
</tbody>
</table>

**Carcinogenicity**

**A: General Product Information**
Ingestion may cause birth defects (teratogen).

**B: Component Carcinogenicity**

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH/A4</th>
<th>IARC/Monograph</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>Not Classifiable</td>
<td>71, 1999; 7, 1987; 15, 1977</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>Not Classifiable</td>
<td></td>
</tr>
</tbody>
</table>

**Other Toxicological Information**
None.

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**Section 12 - Ecological Information**

**Ecotoxicity**

**A: General Product Information**
No information available.

**B: Component Analysis - Ecotoxicity - Aquatic Toxicity**

<table>
<thead>
<tr>
<th>Component</th>
<th>Aquatic Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>96 Hr LC50 Oncorhynchus mykiss: 12900 mg/L [flow-through] (30 days old); 96 Hr LC50 Pimephales promelas: 14.2 mg/L</td>
</tr>
</tbody>
</table>
Isopropyl alcohol (67-63-0)
96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 94900 mg/L [flow-through] (29 days old); 96 Hr LC50 Pimephales promelas: 61200 mg/L [flow-through] (31 days old)

Environmental Fate
No information available.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions
A: General Product Information
This material is a hazardous waste by the EPA definition of flammability.

B: Component Waste Numbers
No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions
Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

*** Section 14 - Transportation Information ***

Shipping Name: Consumer Commodity- Other Regulated Materials (ORM-D)
Additional Info: Based on flash point and viscosity testing, this product is classified as a Packing Group III. For flammable liquids in Packing Group III, inner packaging not over 5.0 L (1.3 gallons) net capacity each, packed in strong outer packaging are required. (49CFR173.150)

International Transportation Regulations
Shipping Name: Consumer Commodity, ORM-D via ground transportation in the USA.

Product is in compliance with the Department of Transportation 49 CFR 173.121, Packing Group III Criteria.

Additional Info: This product is transport regulated as "Consumer Commodity, ORM-D" with a package size limitation maximum of 30 liters (7.9 gallons).

Via air, this product is limited as a “Consumer Commodity”, ORM-D to 0.5 liters. Otherwise the product must be classified as a hazardous material ALCOHOLS, N.O.S. (isopropyl alcohol, ethyl alcohol), 3, UN1987, II

*** Section 15 - Regulatory Information ***

US Federal Regulations
A: General Product Information
Not subject to TSCA regulation. Regulated as a personal use cosmetic by FDA.

B: Clean Air Act
No information is available.

C: Component Analysis
Isopropyl alcohol (67-63-0)

| Section 313: | 1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification) |

State Regulations
A: General Product Information
None identified.
B: Component Analysis - State
The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>CA</th>
<th>FL</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>64-17-5</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

Component Analysis - WHMIS IDL
The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>Minimum Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>64-17-5</td>
<td>0.1 %</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>1 %</td>
</tr>
</tbody>
</table>

Component Analysis - Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>TSCA</th>
<th>CAN</th>
<th>EEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>64-17-5</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
</tbody>
</table>

*** Section 16 - Other Information ***

Other Information
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

MSDS History
This is a revised MSDS. Section's 2 & 3 have been revised to reflect proposed 2004 ANSI Standards format recommendations for 2007 implementation.
1/14/09 Reviewed with no changes.
5/28/09 Updated flash point and Ethyl Alcohol content.

Contact: Product Compliance Officer
Contact Phone: (800) 242-2271

This is the end of MSDS #: SK-123E