

Material Safety Data Sheet

MSDS ID: SK-156C

*** Section 1 - Chemical Product and Company Identification ***

Product Name: STOKO® SPRAY Instant Hand Sanitizer

Product Use: Hand Sanitizer

Company Information

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.

*** Section 2 - Hazards Identification ***

Emergency Overview

This consumer product is a flammable liquid. Consumers must be aware of the flammable nature of this product its flash point is ~75°F (24°C) Employers must inform workers of the hazards of these products and provide worker training on safe handling procedures.

Potential Health Effects: Eyes

May cause eye irritation.

Potential Health Effects: Skin

Not expected to be a skin irritant under normal use conditions.

Potential Health Effects: Ingestion

Harmful if swallowed.

Potential Health Effects: Inhalation

Not an inhalation hazard under normal use conditions.

HMIS Ratings: Health: 1 Fire: 3 Reactivity: 0 Pers. Prot.: B
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

| CAS # | Component | Percent |
|---------|---------------|---------|
| 64-17-5 | Ethyl alcohol | 62 |

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.

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

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

First Aid: Eyes

Flush immediately with water for at least 15 minutes. Do not rub eyes. Get medical attention if discomfort persists.

First Aid: Skin

None. In case of persistent skin irritation, seek medical attention.

First Aid: Ingestion

May be harmful if swallowed. If material is swallowed, get medical attention or advice.

First Aid: Inhalation

If inhaled, move to source of fresh air.

First Aid: Notes to Physician

Product contains denatured alcohol.

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

General Fire Hazards

This product is flammable.

Upper Flammable Limit (UFL): Not determined

Lower Flammable Limit (LFL): Not determined

Method Used: Pensky Marten (PMCC)

Flash Point: 24° C (75°F)

Flammability Classification:

Auto Ignition: Not determined

Hazardous Combustion Products

On thermal decomposition oxides of carbon and nitrogen may be formed.

Extinguishing Media

Foam and carbon dioxide are most effective.

Fire Fighting Equipment/Instructions

Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing.

NFPA Ratings:

Health: 1

Fire: 3

Reactivity: 0

Other: C

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

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

Containment Procedures

For small spills: Use inert dry absorbents. Remove all ignition sources.

Clean-Up Procedures

Collect absorbent with product and place in an appropriate container for disposal in accordance with all applicable local, state and federal waste management regulations.

Evacuation Procedures

Not applicable.

Special Procedures

None.

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*** Section 7 - Handling and Storage ***

Handling Procedures

Keep out of reach of children. Keep container closed. Do not smoke when using.

Storage Procedures

Containers which are open must be properly resealed and kept upright to prevent leakage. Do not store near sources of ignition.

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

General:

For OSHA workplace hazards, investigate and read and understand component MSDS's before manufacturing.

A: Component Exposure Limits

Ethyl alcohol (64-17-5)

| | |
|--------|--|
| OSHA: | 1000 ppm TWA; 1900 mg/m ³ TWA |
| ACGIH: | 1000 ppm TWA |

B: Exposure Limits for Chemicals which may be generated during processing

Ethyl alcohol (64-17-5)

| | |
|--------|--|
| ACGIH: | 1000 ppm TWA |
| OSHA: | 1000 ppm TWA; 1900 mg/m ³ TWA |
| NIOSH: | 1000 ppm TWA; 1900 mg/m ³ TWA |

Engineering Controls

Consumer product. None necessary.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Avoid eye contact.

Personal Protective Equipment: Skin

Avoid skin contact.

Personal Protective Equipment: Respiratory

None.

Personal Protective Equipment: General

Obey reasonable safety precautions and practice good housekeeping.

*** Section 9 - Physical & Chemical Properties ***

| | |
|--|--|
| Appearance: Colorless | Odor: Alcohol |
| Physical State: Liquid | pH: 6-8 |
| Vapor Pressure: Not determined | Vapor Density: Not determined |
| Boiling Point: >78C | Melting Point: Not applicable |
| Solubility (H₂O): very soluble | Specific Gravity: 0.91 gm/cm ³ |
| | Flash Point: 24°C (75°F) (PMCC) |

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*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable under usual application conditions.

Chemical Stability: Conditions to Avoid

Sources of ignition.

Incompatibility

None identified.

Hazardous Decomposition

None identified.

Hazardous Polymerization

Hazardous polymerization will not occur.

*** Section 11 - Toxicological Information ***

Acute and Chronic Toxicity

Acute Toxicity-LD50/LC50

Ethyl alcohol (64-17-5)

LD50: Inhalation LC50 Rat: 124.7 mg/L/4H; Oral LD50 Rat: 1501 mg/kg

Carcinogenicity

Component Carcinogenicity

Ethyl alcohol (64-17-5)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

*** Section 12 - Ecological Information ***

Ecotoxicity

Component Analysis - Ecotoxicity - Aquatic Toxicity

Ethyl alcohol (64-17-5)

96 Hr LC50 Oncorhynchus mykiss: 12900 mg/L [flow-through] (30 days old); 96 Hr LC50 Pimephales promelas: 14.2 mg/L

Environmental Fate

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

General Product Information

Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

Disposal Instructions

Dispose of empty containers according to all State and Federal environmental regulations. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

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*** Section 14 - Transportation Information ***

International Transportation Regulations

US Department of Transportation (D.O.T.)

Additional Information: This product has a flash point greater than 24°C (75°F) and is therefore classified as a Packing Group III. Consumer product. Exempt from D.O.T. regulations as long as the volume in each package does not exceed five (5) liters.

This product may be classified as a "Consumer Commodity" ORM-D.

IATA

If shipped by air, this DOT ORM-D classification does not apply and the product must be shipped as a flammable material:

| | |
|---------------------------|-------------------------|
| Shipping name: | Ethyl Alcohol, solution |
| UN/NA#: | 1170 |
| Hazard Class: | 3 |
| Packing Group: | III |
| Required Label(s): | Flammable |

Canada:

TDG exempt

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: Clean Air Act

No information is available.

B: Component Analysis

No information is available.

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

| Component | CAS # | CA | FL | MA | MN | NJ | PA |
|---------------|---------|-----|----|-----|-----|-----|-----|
| Ethyl alcohol | 64-17-5 | Yes | No | Yes | Yes | Yes | Yes |

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

No components are listed in the WHMIS IDL.

Component Analysis - Inventory

| Component | CAS # | TSCA | CAN | EEC |
|---------------|---------|------|-----|--------|
| Ethyl alcohol | 64-17-5 | Yes | DSL | EINECS |

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| * * * Section 16 - Other Information * * * |
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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 newly revised MSDS. Section's 2 & 3 now reflect proposed ANSI Standards format recommendations for 2007 implementation. Section 3 is clarified as to the concentration of >60% for the Ethanol.

Contact: Product Safety Compliance Officer

Contact Phone: (800) 242-2271

This is the end of MSDS ID: SK-156C