

Material Safety Data Sheet

MSDS ID: SK-174

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

Product Name: STOKO® Refresh Foaming 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

Components ethanol is a severe eye irritant, 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 of ethanol 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: 4 Reactivity: 0 Pers. Prot.: None required.

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	Ethanol (ethyl alcohol)	60-70

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

Material Safety Data Sheet

STOKO® Refresh Foaming Instant Hand Sanitizer

MSDS ID: SK-174

*** 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): 18%

Lower Flammable Limit (LFL): 3.5%

Method Used: Method: DIN 51755

Flash Point: 71° F

Flammability Classification:

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:** 4 **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.

Material Safety Data Sheet

STOKO® Refresh Foaming Instant Hand Sanitizer

MSDS ID: SK-174

*** 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

Keep away from sources of ignition, protect from sunlight and excessive heat.

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

General Information

FDA regulated. 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

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	Odor: of alcohol
Physical State: Liquid	pH: Not Established
Vapor Pressure: Ethanol comp. 40 mm Hg	Vapor Density: 1.6 (Air = 1)
Boiling Point: As Ethanol : 78.5° C	Melting Point: Not Established
Solubility (H₂O): Not Established	Specific Gravity: ~0.889 g/cm ³
	Flash Point: 71°F (Method DIN 755)

*** 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.

Material Safety Data Sheet

STOKO® Refresh Foaming Instant Hand Sanitizer

MSDS ID: SK-174

Hazardous Polymerization

Hazardous polymerization will not occur.

*** 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.

Based on knowledge of the properties of the components, adverse effects on human health are not to be expected in normal use. In tests on humans as well as in normal short-term use, the product has proven to be compatible to the skin.

B: 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

A: General Product Information

Ingestion may cause birth defects (teratogen).

B: Component Carcinogenicity

Ethyl alcohol (64-17-5)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

Other Toxicological Information

None.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

See component information.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Ethyl alcohol (64-17-5)

96 Hr LC50 rainbow trout (30 days old):12900 mg/L (flow-through);24 Hr LC50 fingerling trout: 11200 mg/L;96 Hr LC50 fathead minnow: 14200 mg/L (flow-through)

Environmental Fate

No information available for the product.

*** 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.

Material Safety Data Sheet

STOKO® Refresh Foaming Instant Hand Sanitizer

MSDS ID: SK-174

*** Section 14 - Transportation Information ***

US Department of Transportation (DOT)

DOT Shipping Name: "Consumer Commodity", ORM-D

Additional Information: This product is transport regulated as "Consumer Commodity", ORM-D with a package size limitation maximum of 1.0 liter.

IATA air transport (US and International)

IATA Shipping Name: "Consumer Commodity", ORM-D

Additional Information: This product is IATA (air) regulated as a "Consumer Commodity", ORM-D with a package size limitation of 0.5 liters.

Larger quantities

DOT, IMDG and IATA (Air) transport proper shipping name & nomenclature:

Ethanol (Ethyl Alcohol), 3, UN 1170, II

DOT hazardous label, FLAMMABLE

*** 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
Ethanol (ethyl alcohol)	64-17-5	Yes	No	Yes	Yes	Yes	Yes

Component Analysis - WHMIS IDL

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Ethyl alcohol	64-17-5	0.1 %

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Ethanol (ethyl alcohol)	64-17-5	Yes	DSL	EINECS

Material Safety Data Sheet

STOKO® Refresh Foaming Instant Hand Sanitizer

MSDS ID: SK-174

*** 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 new MSDS. Section's 2 & 3 reflect newly proposed August, 2004 ANSI Standards format recommendations for 2007 implementation.

Contact: Product Compliance Officer

Contact Phone: (800) 242-2271

This is the end of MSDS ID: SK-174