

## Material Safety Data Sheet

MSDS ID: SK-123D

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

STOKO® GEL 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 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 Flammability: 2 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
64-17-5	Ethyl alcohol
67-63-0	Isopropyl alcohol

## 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.

# Material Safety Data Sheet

STOKO GEL Instant Hand Sanitizer

MSDS ID: SK-123D

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. See section 14 for shipping purposes via DOT.

**Upper Flammable Limit (UFL):** 19%

**Lower Flammable Limit (LFL):** 3.3%

**Method Used:** PMCC

**Flash Point:** 84° F

**Flammability Classification:** IC

**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      **Flammability:** 2      **Reactivity:** 0

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

# Material Safety Data Sheet

STOKO GEL Instant Hand Sanitizer

MSDS ID: SK-123D

## \*\*\* 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

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

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

### General Information:

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

### A: Component Exposure Limits

#### Ethyl alcohol (64-17-5)

OSHA:	1000 ppm TWA; 1900 mg/m3 TWA
ACGIH:	1000 ppm TWA

#### Isopropyl alcohol (67-63-0)

OSHA:	400 ppm TWA; 980 mg/m3 TWA
ACGIH:	200 ppm TWA

### Engineering Controls

None required for intended use. However, in manufacturing this product, provide adequate ventilation to minimize worker exposure to vapors.

### PERSONAL PROTECTIVE EQUIPMENT

#### Personal Protective Equipment: Eyes/Face

None required for Intended use. However, in manufacturing this product, avoid eye contact by using goggles or safety glasses.

#### Personal Protective Equipment: Skin

None required for intended use. However, in manufacturing this product, avoid prolonged contact with sensitive skin by using neoprene gloves if needed.

#### Personal Protective Equipment: Respiratory

None required for intended use. However, in manufacturing this product, avoid prolonged inhalation of vapors. If vapors exist, use appropriate NIOSH approved respirator.

#### Personal Protective Equipment: General

Obey reasonable safety precautions and practice good housekeeping.

# Material Safety Data Sheet

STOKO GEL Instant Hand Sanitizer

MSDS ID: SK-123D

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

<b>Appearance:</b> Clear, colorless	<b>Odor:</b> perfume fragrance
<b>Physical State:</b> gel	<b>pH:</b> 6.8 - 7.9
<b>Vapor Pressure:</b> ethanol comp. 40 mm Hg	<b>Vapor Density:</b> 1.6 (Air = 1)
<b>Boiling Point:</b> as Ethanol : 78.5° C	<b>Melting Point:</b> Not Established
<b>Solubility (H2O):</b> Not Established	<b>Specific Gravity:</b> 0.9 g/cc <sup>3</sup>
	<b>Flash Point:</b> 84°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.

## \*\*\* 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

##### Ethyl alcohol (64-17-5)

LD50:	Inhalation LC50 Rat: 124.7 mg/L/4H; Oral LD50 Rat: 1501 mg/kg
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##### Isopropyl alcohol (67-63-0)

LD50:	Inhalation LC50 Rat: 72.6 mg/L/4H; Oral LD50 Rat: 4396 mg/kg; Dermal LD50 Rat: 12800 mg/kg; Dermal LD50 Rabbit: 12800 mg/kg
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### 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
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##### Isopropyl alcohol (67-63-0)

ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 71, 1999; Supplement 7, 1987; Monograph 15, 1977

### Other Toxicological Information

None.

# Material Safety Data Sheet

STOKO GEL Instant Hand Sanitizer

MSDS ID: SK-123D

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

##### 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 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.

## \*\*\* Section 14 - Transportation Information \*\*\*

### Department of Transportation (DOT)

Shipping Name: "Consumer Commodity", ORM-D

### IATA (US and International)

Via air, this product is limited to 0.5 liters as a "Consumer Commodity", UN8000, CLASS 9. Otherwise the product must be classified as a hazardous material: **ALCOHOLS, N.O.S. (ethyl alcohol, isopropyl alcohol), UN1987, 3, PGIII**

### IMDG (International Shipping)

Via water, this product is limited to 60 liters and must be shipped as: **ALCOHOLS, N.O.S. ( ETHYL ALCOHOL, ISOPROPYL ALCOHOL), UN1987, 3, PGIII ( Ltd. Qty.)**

# Material Safety Data Sheet

STOKO GEL Instant Hand Sanitizer

MSDS ID: SK-123D

## \*\*\* Section 15 - Regulatory Information \*\*\*

### US Federal Regulations

#### A: Clean Air Act

No information is available.

#### B: 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)
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### Component Analysis – United State's and Canada WHMIS

The following components appear on one or more of the following state hazardous substances lists and on the **CANADA WHMIS IDL LIST**:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Ethyl alcohol	64-17-5	Yes	No	Yes	Yes	Yes	Yes
Isopropyl alcohol	67-63-0	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 - Inventory

Component	CAS #	TSCA	CAN	EEC
Ethyl alcohol	64-17-5	Yes	DSL	EINECS
Isopropyl alcohol	67-63-0	Yes	DSL	EINECS

## \*\*\* 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 reflect proposed 2004 ANSI Standards format recommendations for 2007 implementation. In Section 5 & 8 the flash point has been changed to read 84°F, using Pensky Marten Closed Cup. In Section 14 the IATA classification is CLASS 9, UN8000. In Section 14 as well, IMDG shipping information has been added.

**Contact:** Product Compliance Officer

**Contact Phone:** (800) 242-2271

This is the end of MSDS ID: SK-123D