

# SAFETY DATA SHEET

D00087-67

Issuing Date 21-Apr-2020

Revision Date 21-Apr-2020

Revision Number 1

## 1. Identification

### Product identifier

**Product Name** Doctors Kline + Green Foaming Hand Sanitizer  
Alcohol Antiseptic 62% Topical Solution

### Other means of identification

**UN/ID no** Packaged as Consumer Commodity:  
UN1950 Flammable Aerosol or ID8000 Consumer Commodity  
Bulk Intermediate:  
UN1170 Ethanol Solutions

### Other information

This is a personal care product. Consumers: Refer to the package insert or product label for appropriate consumer-specific information about this product when used according to manufacturer's directions. This SDS contains useful information for the safe handling and proper use of the product for industrial workplace conditions as well as unintended exposures as might occur with large spills.

### Recommended use of the chemical and restrictions on use

**Recommended use** Topical Antiseptic Handrub - OTC  
**Restrictions on use** No information available

### Details of the supplier of the safety data sheet

#### Manufacturer Address

Formulated Solutions  
11775 Starkey Road  
Largo, FL 33773 US  
+1-888-643-8826

### Emergency telephone number

**Emergency Telephone** ChemTel: 1-800-255-3924, Ext 753393

## 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable aerosol	Category 2
Serious eye damage/eye irritation	Category 2A

### Label elements

#### **Danger**

#### **Hazard statements**

Flammable aerosol.

Causes serious eye irritation.



#### **Hazards not otherwise classified (HNOC)**

Not applicable

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking Keep container tightly closed. Protect from Sunlight

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

#### **Precautionary Statements - Response**

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 ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower In case of fire: Use dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam to

extinguish

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### **Other information**

May be harmful if inhaled. Causes mild skin irritation. May cause drowsiness or dizziness.

## 3. Composition / information on ingredients

### Substance

Not applicable.

## **Mixture**

Chemical name	CAS No	%
Ethanol	64-17-5	30-60 %
Isobutane	75-28-5	1 - 5 %
1,1-Difluoroethane	75-37-6	1 – 5 %
Propane	74-98-6	< 1%
Proprietary Ingredients	Not considered hazardous	Undisclosed

## **4. First-aid measures**

### **Description of first aid measures**

<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	None under normal use conditions. If skin irritation occurs: Get medical advice/attention.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

### **Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	May cause respiratory system irritation. Harmful if swallowed. Irritation of eyes.
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### **Indication of any immediate medical attention and special treatment needed**

<b>Note to physicians</b>	No specific recommendations.
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## **5. Fire-fighting measures**

<b>Suitable Extinguishing Media</b>	Extinguish with foam, carbon dioxide, dry powder or water fog.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the substance or mixture</b>	Risk of ignition. May form explosive mixture with air at very high concentration. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. During fire, toxic gases (Co, Co <sub>2</sub> ) are formed.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	None.
<b>Sensitivity to static discharge</b>	Yes.
<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions:</b>	ELIMINATE all ignition sources. NO smoking, sparks, flames, or other sources of ignition near spillage. Take precautionary measures against static discharges.  Evacuate personnel to safe areas. Use personal protective equipment as required.  See Section 8 for more information. Avoid contact with skin, eyes, or clothing. Ensure adequate ventilation. Keep people away from, and upwind of, spill/leak. Do not touch or walk through spilled material.
<b>Other information</b>	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

### Methods and material for containment and cleaning up

<b>Methods for containment</b>	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water.  Keep out of drains, sewers, ditches, and waterways.  Absorb with earth, sand, or other non-combustible material and transfer to containers for later disposal.
<b>Methods for cleaning up</b>	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

## 7. Handling and storage

### Precautions for safe handling

<b>Advice on safe handling</b>	Consumer Commodity: Flammable aerosol. Contents Under Pressure – Do not pierce or burn after use. Avoid contact with eyes. Avoid breathing vapors or mists.  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product. Use according to package label instructions.  When in bulk form: Use personal protection equipment. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Handle in accordance with good industrial hygiene and safety practice.
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### Conditions for safe storage, including any incompatibilities

<b>Storage Conditions</b>	Keep in a dry, cool, and well-ventilated place. Do not store above 50°C. Keep away from heat, sparks, flame, and other sources of ignition (i.e. pilot lights, electric motors, and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with national and local regulations.
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## 8. Exposure controls / personal protection

### Control parameters

As a consumer commodity, follow all label directions.

The following information is pertinent when product is in large quantities in a workplace or manufacturing setting.

### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 rpm TWA: 1900 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1900 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
Isobutane 75-28-5	STEL: 1000 ppm	n/a	n/a
Propane 74-98-6	TWA: Simple Asphyxiant STEL: Simple Asphyxiant	n/a	n/a

### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region-specific regulatory bodies.

### Appropriate engineering controls

**Engineering controls**                      Showers  
   Eyewash stations  
   Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection**                      Safety glasses.

**Hand protection**                              Wear suitable gloves.

**Skin and body protection**                      Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.  
Antistatic boots.

**Respiratory protection**                      No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

**Appearance**  
    **Physical state**                              Aerosol, dispenses as foam.  
    **Color**    Colorless to white  
    **Odor**    Slight Alcoholic

<u>Property</u>	<u>Values</u>	<u>Remarks - Method</u>
pH	No data available	None known
Boiling point/ boiling range	No data available	None known
Flashpoint	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
<u>Other information</u>		
<b>Explosive properties:</b>	<b>Oxidizing properties</b>	<b>VOC Content (%)</b>
No information available.	No information available.	No information available
<b>Liquid Density</b>	<b>Softening point</b>	<b>Bulk density</b>
0.80 – 0.95 g/mL	No information available	No information available

## 10. Stability and reactivity

<b>Reactivity</b>	The following materials may react violently with the product: Strong oxidizing agents.
<b>Chemical stability</b>	Stable under normal ambient temperatures. Highly flammable liquid and vapor. In use, may form flammable/explosive vapor-air mixture.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to avoid</b>	Avoid heat, flames and sparks. Avoid direct sunlight. Stable at normal ambient temperatures.
<b>Incompatible materials</b>	Avoid contact with the following materials: Reducing agents, strong acids, strong alkalis, strong oxidizing agents.
<b>Hazardous decomposition products</b>	Oxides of carbon.

## 11. Toxicological information

### Information on likely routes of exposure

#### Product Information

<b>Respiratory Sensitization</b>	Based on available data, the classification criteria are not met.
<b>Eye contact</b>	May cause temporary eye irritation.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. Causes mild skin irritation. Prolonged contact may cause redness and irritation.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available.

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** May cause redness and tearing of the eyes. Prolonged contact may cause redness and irritation.

### Acute toxicity

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethanol 64-17-5	= 7060 mg/kg (Rat)	n/a	= 124.7 mg/L (Rat) 4 h
Water 7732-18-5	> 90 mL/kg (Rat)	n/a	n/a

### Propane

*Target Organs:* No systemic or neurotoxic effects were noted in rats exposed to concentrations of propane as high as 12,000 ppm for 28 days.

*Reproductive Toxicity:* No adverse reproductive or developmental effects were observed in rats exposed to propane; no observed adverse effect level = 12,000 ppm.

### n-Butane

*Target Organs:* No systemic or neurotoxic effects were noted in rats exposed to concentrations of butane as high as 9,000 ppm for 28 days.

*Reproductive Toxicity:* No adverse reproductive or developmental effects were observed in rats exposed to butane; no observed adverse effect level = 12,000 ppm.

### Isobutane

*Target Organs:* No systemic or neurotoxic effects were noted in rats exposed to concentrations of isobutane as high as 9,000 ppm for 28 days.

*Reproductive Toxicity:* No adverse developmental effects were observed in rats exposed to concentrations of isobutane as high as 9000 ppm. Fertility and mating indices may have been affected at 9000 ppm but no effects were observed at 3000 ppm.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion / irritation** Classification based on data available for ingredients. May cause skin irritation.

**Serious eye damage / eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitization** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage. Based on available data, the classification criteria are not met.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Ethanol 64-17-5	A3	Group 1	Known	X

### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 – Animal Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**NTP (National Toxicology Program)**

Known - Known Carcinogen

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>STOT – single/repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Target organ effects</b>	Eyes, Skin, Respiratory system.
<b>Aspiration hazard</b>	No information available.
<b>Other adverse effects</b>	No information available.
<b>Interactive effects</b>	No information available.

## 12. Ecological information

**Ecotoxicity:** The environmental impact of this product has not been fully investigated.

There is no information on effects on Algae/aquatic plants or microorganisms.

Chemical name	Fish	Crustacea
Ethanol 64-17-5	LC50: 12.0 - 16.0mg/L (96h, Oncorhynchus mykiss) LC50: >100mg/L (96h, Pimephales promelas) LC50: 13400 - 15100mg/L (96h, Pimephales promelas)	LC50: 9268 – 14221 mg/L (48h, Daphnia magna) EC50: = 2mg/L (48h, Daphnia magna)

**Persistence and degradability** No information available.

**Bioaccumulation** There is no data for this product.

### Component Information

Chemical name	Partition coefficient
Ethanol 64-17-5	-0.32

Other adverse effects **No information available.**

## 13. Disposal considerations

### Waste treatment methods

**General information** When handling waste, consider the safety precautions applying to the handling of the product. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture, or weld.

**Disposal methods** Dispose of waste to licensed waste disposal sites in accordance with the requirements of the local Waste Disposal Authority. No specific disposal method required.

Chemical name	California Hazardous Waste Status
Ethanol 64-17-5	Toxic Ignitable

## 14. Transportation information

**Note:** This is a consumer product and as such may usually be shipped as ORM-D (other regulated materials for domestic transport only) Consumer Commodity for transport within the United States.

While this product is a hazardous material, it may be shipped in a limited quantity (ID8000 Consumer Commodity) that presents a limited hazard during air transportation, due to its form, quantity, and packaging.

The information listed below is for shipping as a consumer commodity and for shipping as bulk, unpackaged material.

Transportation Organization	Consumer Commodity	Bulk Intermediate
<b>DOT</b>		
UN/ID no	ORM-D	UN1170
Proper shipping name	CONSUMER COMMODITY	ETHANOL SOLUTIONS
Hazard class	ORM-D	3
Packing group	NOT APPLICABLE	II
Special Provisions	NOT APPLICABLE	24, IB2, T4, TP1
DOT Marine Pollutant	NOT APPLICABLE	NP
Description	Consumer Commodity / Limited Quantity	UN1170, ETHANOL SOLUTIONS, 3, II
<b>IATA</b>		
UN number	ID8000	UN1170
UN proper shipping name	Consumer Commodity	Ethanol solution
Transport hazard class(es)	Not Applicable	3
Packing group	Not Applicable	II
ERG Code	Not Applicable	3L
ERG Code	Not Applicable	
Special Provisions	Not Applicable	A180, A3, A58
Description	ID8000, Consumer Commodity	UN1170, Ethanol solution, 3, II
<b>IMDG</b>		
UN number	UN1950	UN1170
UN proper shipping name	Aerosols, Flammable – Limited Quantity	ETHANOL SOLUTION
Transport hazard class(es)	2.1	3
Packing group	NOT APPLICABLE	II
EmS-No	NOT APPLICABLE	F-E, S-D
Marine pollutant	No	NP
Special Provisions	UN1950, Aerosols, Flammable – Limited Quantity	144
Description		UN1170, ETHANOL SOLUTION, 3, II, (17.5°C.C.C.)
UN Number (TOG, IMDG, ICAO)	<u>Special precaution for user</u>	<u>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</u>
UN1950 Aerosols, Flammable Class 2.1 Packing group, None Not Environmentally Hazardous	EmS F-D, S-U	Not applicable

## 15. Regulatory information

### International Inventories

#### **TSCA**

Chemical name	CAS No		
Ethanol	64-17-5	Present	Active

#### **Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### **SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, contains no substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

### US State Regulations

#### **California Proposition 65**

Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage. This product contains the following Proposition 65 chemicals:

Chemical name	California Proposition 65
Ethanol 64-17-5	Carcinogen Developmental

### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethanol 64-17-5	X	X	X

### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

**Regulatory Status** This product is manufactured and labeled in compliance with the Federal Food, Drug, and Cosmetic Act, and is exempt from the labeling requirements of the OSHA Hazard Communication Standard. All components of this product are either on the TSCA 8(b) inventory or otherwise exempt from listing.

## 16. Other information

**NFPA - health hazard** Irritation, minor residual injury. (1)

**NFPA - flammability hazard** Extremely flammable. (4)

**NFPA - instability hazard** Normally stable. (0)

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**Revision No** First Issue

### Disclaimer

The information provided in this 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 a 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.

**End of Safety Data Sheet**