

## 1. Identification of the Chemical and Company

Product Name: Alcohol Gel Hand Cleaner

SDS Date: 2/12/2016

Use of the substance: Hand Cleaner

Distributor: Arrowhead Forensics  
11006 Strang Line. Rd Lenexa, KS 66215- Ph: (913)894-8388

Telephone number for emergency:  
800.883.9400

## 2. Hazards Identification

GHS Classification:

Flammable liquids (Category 2)

Eye irritation (Category 2A)

Pictogram:



Signal word: Danger

Hazard statement: Highly flammable liquid and vapor.  
Causes serious eye irritation.

Precautionary:

Highly flammable liquid and vapor. Causes serious eye irritation. Keep away from heat, sparks, open flames, hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion proof electrical /ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Wear protective gloves/eye protection/face protection. Response If on skin {or hair}: Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. In case of fire: Use to extinguish. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local /regional /national /international regulations.

Hazards not otherwise classified: Not available

### 3. Composition/Information on Ingredients

Name	CAS No.	Concentration
Ethanol	64-17-5	50-70

### 4. First Aid Measure

**General Advice** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If Inhaled** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In Case of Skin Contact** Wash off with soap and plenty of water. Consult a physician.

**In Case of Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

**If Swallowed** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2) and/or section 11.

#### Indications of any immediate medical attention and special treatment needed

No data available

### 5. Fire-Fighting Measures

**Extinguishing Media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special Hazards** Carbon oxides

**Advice for firefighters** Wear self-contained breathing apparatus for firefighting if necessary.

**Further information** Use water spray to cool unopened containers.

### 6. Accidental Release Measures

#### Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

## 7. Handling and Storage

**Safe Handling** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition – No smoking. Take measures to prevent the build-up of electrostatic charge.

**Safe Storage** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Hygroscopic

## 8. Exposure Controls / Personal Protection

Name		CAS	
Ethanol		64-17-5	
OSHA TWA 1000 ppm	OSHA STEL Not available	ACGIH TWA 1000 ppm	ACGIH STEL Not Available

**Engineering Control** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Eye/Face Protection** Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Skin Protection** Handle with butyl rubber gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection** Impervious clothing. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory Protection** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Control of Environmental Exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 9. Physical and Chemical Properties

<b>Appearance</b>	Ethanol	Colorless, clear liquid
<b>Odor</b>	Ethanol	No data available
<b>Odor Threshold</b>	Ethanol	No data available
<b>pH</b>	Ethanol	No data available
<b>Melting/Freezing Point</b>	Ethanol	-143.99 C (-227.18F)
<b>Initial Boiling Point/Range</b>	Ethanol	78.0 – 80.0°C (172.4 – 176.0°F)
<b>Flash Point</b>	Ethanol	14.0°C (57.2°F) - closed cup
<b>Evaporation Rate</b>	Ethanol	No data available
<b>Flammability</b>	Ethanol	No data available
<b>Upper Explosion Limit</b>	Ethanol	19%
<b>Lower Explosion Limit</b>	Ethanol	3.3%
<b>Vapor Pressure</b>	Ethanol	59.5 hPa (44.6 mmHg) at 20.0°C (68.0°F)
<b>Vapor Density</b>	Ethanol	No data available
<b>Relative Density</b>	Ethanol	0.7974 g/cm <sup>3</sup>
<b>Water Solubility</b>	Ethanol	Completely soluble
<b>Partition Coefficient</b>	Ethanol	No data available
<b>Auto Ignition Temperature</b>	Ethanol	363.0°C (685.4°F)
<b>Decomposition Temperature</b>	Ethanol	No data available
<b>Viscosity</b>	Ethanol	No data available

## 10. Stability and Reactivity

<b>Reactivity</b>	No data available
<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions</b>	Vapors may form explosive mixture with air.
<b>Conditions to Avoid</b>	Heat, flames and sparks. Extremes of temperature and direct sunlight.

**Incompatible materials**

Alkali metals, Oxidizing agents, Peroxides

**Hazardous Decomposition Products**

No data available

## 11. Toxicological Information

Name	CAS
Ethanol	64-17-5
LD50 Oral - Rat - 2, 743 mg/kg	
Inhalation: No data available	
LD50 Dermal - Rabbit - > 2,000 mg/kg	
<b>Skin corrosion/irritation</b>	Result: Mild skin irritation - 24 h
<b>Serious eye damage/eye irritation</b>	Result: Irritating to eyes. - 24 h
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA
<b>Reproductive</b>	No data available
<b>Additional information</b>	Drying, cracking of the skin, Skin irritation Liver - Irregularities

## 12. Ecological Information

Name	CAS	Toxicity
Ethanol	64-17-5	Not Available

## 13. Disposal Considerations

Dispose of contents/container in accordance with local/regional/national/international regulations.

## 14. Transport Information

<b>Proper Shipping Name</b>	Flammable Liquids, n.o.s. (Ethanol)
<b>Hazard Class</b>	3
<b>Identification Number</b>	UN1993
<b>Packing Group</b>	II
<b>Label</b>	Flammable

## 15. Regulatory Information

<b>Name</b>	<b>CAS</b>
Ethanol	64-17-5
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	No components were identified
<b>CERCLA</b>	No components were identified
<b>SARA 311/312</b>	Fire Hazard, Chronic Health Hazard
<b>PROP 65</b>	No components were identified
This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.	

## 16. Other Information

**SDS Date:** 2/12/2016

**Disclaimer:**

The information and recommendations contained in the Safety Data Sheet (SDS) are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein are presented in good faith and believed to be correct as of this date hereof. Solvent Systems International, however, makes no representation as to the completeness or accuracy thereof, and information is supplied upon the express condition that the persons receiving the information will be required to make their own determination as to its suitability for their purposes prior to use. In no event will Solvent Systems International be responsible for any damages of any nature whatsoever resulting from the use of, reliance upon, or the misuse of this information. User assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. NO REPRESENTATIONS OR WARRANTIES,

EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY OTHER NATURE, ARE MADE BY SOLVENT SYSTEMS INTERNATIONAL HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS. The information as supplied herein is simply to be informative and intended solely to alert the user of the substance which is the subject matter of this SDS. The ultimate compliance with federal, state or local regulations concerning the use of this compound, or compliance with respect to product liability, rests solely upon the purchaser thereof. This information relates to the material designated and may not be valid for such material used in combination with any other materials nor in any process.