

# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

This SDS is used for the following Arcot products:

- **Arcot #9606 Arcot Hand Sanitizer.** This product adheres to the WHO-recommended formula which is also approved by FDA. It is registered with FDA under NDC 74189-9606-4.
- **Arcot #9607 Arcot 80% Alcohol For Hands & Other Surfaces**
- **Arcot #6607 Max-Control 80% Alcohol For Hands**

Manufacturer: Arcot Manufacturing Corporation, 2950 Mowery Road, Houston, Texas, U.S.A. 77045

Emergency Response Telephone: 1-800-633-8253 (Account #9390)

Arcot Customer Service Telephone: 713-413-9700

Website: [www.ArcotManufacturing.com](http://www.ArcotManufacturing.com)

Recommended Use: Hands & Other Surfaces

Restrictions on Use: Flammable

## 2. HAZARDS IDENTIFICATION

GHS Classification:

Flammable liquids: Category 2

Eye irritation: Category 2B (Mild Irritant)

**GHS Label element**

Hazard pictograms:



Signal Word: **DANGER**

Hazard statements:

H225: Highly flammable liquid and vapor.

H319: Causes serious eye irritation.

Precautionary statements:

Prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.

P233: Keep container tightly closed.

P240: Ground/Bond container and receiving equipment (for large containers).

P241: Use explosion-proof electrical/ventilating/lighting/equipment (for transferring large volumes).

P242: Use only non-sparking tools (for large volumes).

P243: Take precautionary measures against static discharge.

- P264: Wash skin thoroughly after handling (for handling large volumes).  
 P271: Use only outdoors or in a well-ventilated area (for handling large volumes).  
 P280: Wear protective gloves (for handling large volumes), eye protection and face protection.

Response:

- P301 + P330 + P310 + P331: IF SWALLOWED: Rinse mouth. Immediately call a doctor. Do NOT induce vomiting.  
 P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
 P302 + P352: IF ON SKIN: Wash with plenty of water and soap.  
 P362 + P364: Take off contaminated clothing and wash it before reuse.  
 P304 + P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.  
 P315: If any irritation persists, get immediate medical attention.  
 P370: In case of fire: Use alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>) or dry chemical to extinguish.

Storage:

- P235: Keep cool.  
 P403: Store in a well-ventilated place.  
 P405: Store locked up.  
 P410: Protect from sunlight.  
 Store at temperatures not exceeding 86°F.

Disposal:

- P501: Dispose of contents and container to an approved waste disposal plant in accordance with applicable local, state, federal and international regulations.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance/Mixture: Mixture

**Hazardous components:**

Chemical Name	CAS #	Concentration (%)
Ethyl Alcohol	64-17-5	80
Hydrogen Peroxide	7722-84-1	< 1

**4. FIRST-AID MEASURES**

General advice: Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

If inhaled: Move to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Consult a physician after significant exposure.

In case of skin contact: If it irritates the skin, rinse well with water for at least 15 minutes and wash using soap. If on clothes, remove clothes.

In case of eye contact: Immediately flush eye(s) with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed: Do not induce vomiting. Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention.

## **5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>), dry chemical

Unsuitable extinguishing media: High volume water jet

Specific hazards during firefighting: Sensitive to static discharge. Vapors can travel to a source of ignition and flash back. Containers may explode in a fire. Do not allow run-off from firefighting to enter drains or water courses.

Hazardous combustion products: Toxic fumes/carbon oxides

Specific extinguishing methods: Use a water spray to cool containers from a distance.

Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.

Special protective equipment for firefighters: Wear self-contained breathing apparatus and full protective clothing, including eye protection and boots. Material might react violently with water (spattering and misting) and react with metals to produce flammable hydrogen gas.

NFPA Flammable and Combustible Liquids Classification: Flammable Liquid Class IB

## **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. 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.

Environmental precautions: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13). Clean surfaces thoroughly with water to remove residual contamination.

## **7. HANDLING AND STORAGE**

Advice on safe handling (of large volumes): Use adequate ventilation and grounding. Wash thoroughly after using. Keep container closed when not in use. Keep away from sources of ignition. No smoking. Take measure to prevent the buildup of electrostatic charge.

Conditions for safe storage: Store in tightly closed, original containers in a cool, dry, well ventilated area. Store between 59-86°F for product stability. Do not store with strong oxidizing agents, strong acids, peroxides, aldehydes, halogens, ammonia, acid anhydrides or alkali metals.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure controls: Ventilation and appropriate grounding of containers.

Components with workplace control parameters:

Cas-No.	Component	Control Parameters / Permissible concentration	Basis
64-17-5	Ethyl Alcohol	1000 ppm	ACGIH STEL
		1880 mg/m <sup>3</sup>	
		1000 ppm	NIOSH REL
		1900 mg/m <sup>3</sup>	
		1000 ppm	OSHA PEL
		1900 mg/m <sup>3</sup>	
		3300 ppm	OSHA IDLH
7722-84-1	Hydrogen Peroxide	1 ppm	OSHA PEL
		1.4 mg/m <sup>3</sup>	
		1 ppm	ACGIH TWA
		1 ppm	NIOSH TWA
1.4 mg/m <sup>3</sup>			

Personal protective equipment:

**Respiratory protection:** No personal respiratory protective equipment normally required. Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.

**Hand protection:** For handling large volumes, the suitability for a specific workplace glove should be discussed with the producers of the protective gloves.

**Eye protection:** Wear chemical safety glasses or goggles if eye contact is possible. Use face shield if splashing is likely to occur.

**Skin and body protection:** Choose body protection according to the amount and concentration of the dangerous substance at the work place. When needed, wear impervious clothing, nitrile or rubber gloves, and apron or lab coat.

**Hygiene measures:** When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. With large volumes or when eye contact is possible, provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid
Color	colorless, clear
Odor	alcohol-like
Odor Threshold	N/A
pH	No data available
Freezing Point/Melting Point	approx. -59°C (-75°F)

Boiling Point Range	78-100°C (172-212°F)
Flash point	approx. 20°C (68°F)
Evaporation rate (n-Butyl Acetate = 1)	No data available
Flammability (solid, gas)	Flammable
Burning rate	No data available
Upper explosion limit	19% for ethyl alcohol
Lower explosion limit	3.3% for ethyl alcohol
Vapor pressure	44.6 mmHg @20°C (68°F) for ethyl alcohol
Relative vapor density (AIR=1)	No data available
Relative density @20°C (68°F) (water = 1)	approx. 0.84
Density @20°C (68°F)	approx. 7 Lb./Gal.
Bulk density	No data available
Solubility	completely soluble in water
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature	>363°C (>685°F)
Thermal decomposition	No data available
Viscosity	No data available (alcohol thin)

## **10. STABILITY AND REACTIVITY**

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Flammable

Conditions to avoid: Heat, flame and sparks.

Incompatible materials: Alkali metals, ammonia, oxidizing agents, peroxides

Hazardous decomposition products: Carbon oxides

## **11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

Product:

Skin: Not Available

Eyes: Not Available

Respiratory: LC50 Inhalation: rat, 10h, 20000ppm

Ingestion: LD50 Oral: rat, 7060 mg/Kg

### **Carcinogenicity**

Components: 64-17-5

IARC	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	A3: Confirmed animal carcinogen with unknown relevance to humans
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### **Signs & Symptoms of Exposure**

Skin: Possible irritation, redness and/or itchiness with sensitive skin

Eyes: Irritation, redness, watering eyes, itchiness

Respiratory: Irritation, coughing, wheezing, dizziness, drowsiness

Ingestion: Irritation, nausea, vomiting, diarrhea, dizziness, drowsiness

**Chronic Toxicity:** Ingestion may cause blindness  
**Teratogenicity:** Not Available  
**Mutagenicity:** Not Available  
**Embryo Toxicity:** Pre- and Post-implant mortality  
**Specific Target Organ Toxicity:** Not Available  
**Reproductive Toxicity:** Not Available  
**Respiratory/Skin Sensitization:** Not Available

## **12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

#### **Ethyl Alcohol:**

Aquatic Vertebrate: LC50 (96 hours): 13,000 mg/L Oncorhynchus mykiss (Rainbow Trout)  
Aquatic Invertebrate: Not Available  
Terrestrial: Not Available

**Persistence and Degradability:** Not Available  
**Bioaccumulative Potential:** Will not accumulate  
**Mobility in Soil:** Not Available  
**PBT and vPvB Assessment:** Not Available  
**Other Adverse Effects:** Not Available

## **13. DISPOSAL CONSIDERATIONS**

**Waste Product or Residues** User should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product or residue. Dispose of in accordance with all applicable local, state and federal regulations.

**Product Containers** Empty remaining contents. Dispose of as unused product. Do not burn or use a cutting torch on the empty drum. Dispose of in accordance with all applicable local, state and federal regulations.

## **14. TRANSPORT INFORMATION**

UN1993, Flammable liquids, n.o.s. (contains Ethanol solutions), 3, PGII. Do not ship via air.

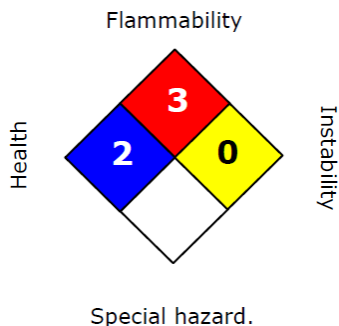
Not considered to be a marine pollutant.

## **15. REGULATORY INFORMATION**

**TSCA Inventory Status:** All ingredients are listed on the TSCA inventory.  
**DSCL (EEC):** All ingredients are listed on the DSCL inventory.  
**California Proposition 65:** Listed: Ethyl Alcohol  
**SARA 302:** Not Listed  
**SARA 304:** Not Listed  
**SARA 311:** Fire Hazard, Acute Health Hazard, Chronic Health Hazard  
**SARA 312:** Fire Hazard, Acute Health Hazard, Chronic Health Hazard  
**SARA 313:** Listed: Ethyl Alcohol  
**OSHA Hazards:** Flammable liquid. Moderate skin and eye irritant.  
**WHMIS Classification:** B-2: Flammable liquid with a flash point lower than 37.8°C (100°F)

## 16. OTHER INFORMATION

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>3</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

*HMIS & NFPA ratings involve data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this SDS must be considered.*

### **Key or legend to abbreviations and acronyms used in the safety data sheet:**

ACGIH	American Conference of Government Industrial Hygienists
AICS	Australia, Inventory of Chemical Substances
DSL	Canada, Domestic Substances List
NDSL	Canada, Non-Domestic Substances List
CNS	Central Nervous System
CAS	Chemical Abstract Service
CEIL	Ceiling
EC50	Effective Concentration
EC50	Effective Concentration 50%
EGEST	EOSCA Generic Exposure Scenario Tool
EOSCA	European Oilfield Specialty Chemicals Association
EINECS	European Inventory of Existing Chemical Substances
MAK	Germany Maximum Concentration Values
GHS	Globally Harmonized System
>=	Greater Than or Equal To
IC50	Inhibition Concentration 50%
IARC	International Agency for Research on Cancer
IDLH	Immediately Dangerous to Life or Health
IECSC	Inventory of Existing Chemical Substances in China
ENCS	Japan, Inventory of Existing and New Chemical Substances
KECI	Korea, Existing Chemical Inventory
<=	Less Than or Equal To
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
LOAEL	Lowest Observed Adverse Effect Level
NFPA	National Fire Protection Agency
NIOSH	National Institute for Occupational Safety & Health
NTP	National Toxicology Program
NZIoC	New Zealand Inventory of Chemicals
NOAEL	No Observable Adverse Effect Level
NOEC	No Observed Effect Concentration
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limit

PICCS	Philippines Inventory of Commercial Chemical Substances
PRNT	Presumed Not Toxic
REL	Recommended Exposure Limit
RCRA	Resource Conservation Recovery Act
STEL	Short-term Exposure Limit
SARA	Superfund Amendments and Reauthorization Act.
TLV	Threshold Limit Value over 8 hours of work
TWA	Time Weighted Average over 8 hours of work
TSCA	Toxic Substance Control Act
UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
WEEL	Workplace Environmental Exposure Levels
WHMIS	Workplace Hazardous Materials Information System

**DISCLAIMER:** The information contained herein is based upon data obtained from sources believed to be reliable and reflects our best professional judgment. Since it is impossible to anticipate all of the conditions under which our products may be used, we do not guarantee that the recommendations will be adequate for all individuals and situations. Each user of this product should determine the suitability of the product for his or her particular purpose and should comply with all federal, state and local regulations. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. We shall not be held liable for any damage resulting from handling or from contact with the above product or from improper use of our products. We do not provide any warranties, expressed or implied, and do not assume any responsibility for the accuracy or completeness of the data contained herein. This information is offered for your information, consideration, and investigation. You should satisfy yourself that you have all current data relevant to your particular use. We update SDS and labels on a regular basis. Please do not hesitate to contact us for current information.

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