

# SAFETY DATA SHEET

## WORKING COPY



**Date Issued :** 11/10/2020  
**SDS No :** ArroPure 70L Hand Sanitizer

### ArroPure 70L Hand Sanitizer

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** ArroPure 70L Hand Sanitizer  
**GENERAL USE:** Hand Sanitizer Non-sterile Solution  
**PRODUCT CODE:** 72-0286  
**PRODUCT FORMULATION NAME:** ArroPure 70L Hand Sanitizer  
**CHEMICAL FAMILY:** Alcohol Solution

#### MANUFACTURER

ARROPOL® Chemicals, Inc.  
 1815 S. Hamilton St.  
 Dalton, GA 30720

**Emergency Contact:** CHEMTREC

**Emergency Phone:** 800-424-9300

**Customer Service:** (706) 277-2981

**Fax:** (706) 277-3964

**E-Mail:** lab@star-na.com

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

**Poison Control Center (Medical) :** (877) 800-5553

**CANUTEC (Canadian Transportation) :** (613) 996-6666

**CHEMTREC (US Transportation) :** (800) 424-9300

#### 2. HAZARDS IDENTIFICATION

##### GHS CLASSIFICATIONS

This material is considered hazardous by the OSHA Hazard Communication Standard [29 CFR 1910.1200]

##### Health:

Specific Target Organ Toxicity--Single Exposure, Respiratory Irritation, Category 3

##### Physical:

Flammable Liquids, Category 3

##### GHS LABEL

Health, Physical



Flame



Exclamation  
mark

**SIGNAL WORD:** WARNING

##### HAZARD STATEMENTS

H226: Flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

##### PRECAUTIONARY STATEMENTS

##### Prevention:

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P240: Ground and bond container and receiving equipment.

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

P235: Keep cool.

P243: Take action to prevent static discharges.

P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.

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P242: Use non-sparking tools.  
P271: Use only outdoors or in a well-ventilated area.  
P264: Wash hands thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

#### Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304+P312: IF INHALED: Call a POISON CENTER/doctor/...if you feel unwell.  
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P337+P313: If eye irritation persists: Get medical advice/attention.  
P370+P378: In case of fire: Use ... to extinguish.  
P340: Remove person to fresh air and keep comfortable for breathing.

#### Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
P405: Store locked up.

#### Disposal:

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

#### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** Material can accumulate static charges which may cause ignition. Material can release vapors that readily form flammable mixtures. Vapor accumulation could flash and/or explode if ignited. Flammable

**CARCINOGENICITY:** This product does not contain any carcinogens or potential carcinogens as listed by IARC, NTP, ACGIH or OSHA.

**ROUTES OF ENTRY:** Eyes, Skin, Ingestion, Inhalation.

**CANCER STATEMENT:** No Carcinogenic substances as defined by IARC, NTP and/or OSHA.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Vol. %	CAS
Ethyl Alcohol	70	64-17-5
Water	28 - 29	7732-18-5
Glycerol	1	7325-16-8
Denatonium Benzoate	< 0.01	3734-33-6

#### 4. FIRST AID MEASURES

**EYES:** Flush eyes Immediately with plenty of water for at least 15 minutes holding eyelids apart to ensure flushing of the entire surface. Contact a physician.

**SKIN:** Remove contaminated clothing, wash contaminated area thoroughly with soap and water. If redness or irritation occurs, seek medical attention.

**INGESTION:** Rinse mouth with water. DO NOT induce vomiting. Call a physician or poison control center immediately.

**INHALATION:** Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Eye reddening, tearing, stinging, and swelling.

**SKIN:** May cause irritation upon prolonged or repeated exposure.

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**INGESTION:** The ingestion of significant quantities may cause damage to central nervous system. Can cause dizziness, confusion, headache or stupor.

**INHALATION:** Dizziness, Drowsiness, Headache, Irritation, Nausea.

**ACUTE EFFECTS:** Vapor irritates eyes. High concentrations of vapors can irritate respiratory tract, is anesthetic and may cause CNS depression.

**CHRONIC EFFECTS:** Prolonged or repeated skin contact may cause allergic skin reaction or dermatitis.

**NOTES TO PHYSICIAN:** Treat symptomatically. Symptoms of poisoning may occur even after several hours; therefore provide medical observation for at least 48 hours after the accident.

#### 5. FIRE FIGHTING MEASURES

**GENERAL HAZARD:** Flammable Liquid

**EXTINGUISHING MEDIA:** Use alcohol resistant foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires involving this material.

**HAZARDOUS COMBUSTION PRODUCTS:** Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Carbon Monoxide and Carbon Dioxide.

**FIRE FIGHTING PROCEDURES:** Dilution of burning liquid with water will affect extinguishment.

**FIRE FIGHTING EQUIPMENT:** Firefighters should be equipped with self-contained breathing apparatus and full protective fire fighting gear.

**FIRE EXPLOSION:** Spills produce extremely slippery surfaces.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Will not occur.

#### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Eliminate all possible sources of ignition. Wear appropriate personal protective equipment. Stop leak if possible to do so safely. Contain spilled material and soak up with suitable absorbent.

**LARGE SPILL:** Stop leak is without risk. Move containers from spill area. Use spark proof tools and explosion proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible absorbent material, e.g. sand, earth, vermiculite or diatomaceous earth and place in a container for disposal according to local regulations (See Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as spilled product. Note see Section 1 for emergency contact information and Section 1 for waste disposal.

#### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Avoid runoff into storm sewers, ditches, and waterways.

**LAND SPILL:** Prevent release to the environment. All equipment used for handling the product must be grounded. Use clean non-sparking tools to collect material. Recover by pumping or with suitable absorbent.

**RELEASE NOTES:** Use only non-sparking tools.

#### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.

**HANDLING:** Eliminate all possible ignition sources. Containers must not be cut, welded, or exposed to ignition sources even if empty, as they may explode.

**STORAGE:** Store cool and dry, under well-ventilated conditions. Keep away from heat, sparks and open flames. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Empty container contains residual product which may exhibit hazards of product. Do not reuse empty container without commercial cleaning or reconditioning.

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#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

##### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
EXPOSURE LIMITS				
Chemical Name	Type		ppm	mg/m <sup>3</sup>
Ethyl Alcohol	OSHA PEL	TWA	1000	1900
	ACGIH TLV	TWA	1000	1884
Glycerol	OSHA PEL	TWA	10	
	ACGIH TLV	TWA	10	
Denatonium Benzoate	Supplier OEL	TWA	None	

**ENGINEERING CONTROLS:** Good general ventilation should be sufficient to control airborne levels. Where engineering controls such as process enclosures or local exhaust ventilation are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

##### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Chemical safety glasses with side shields conforming to EN166. Wear face mask if splashing is likely .

**SKIN:** Wear rubber or neoprene gloves.

**RESPIRATORY:** A NIOSH / MSHA approved air supplied respirator is advised in absence of proper environmental control.

**PROTECTIVE CLOTHING:** Use clothing necessary to prevent contact.

**WORK HYGIENIC PRACTICES:** Good housekeeping practices should include making sure all containers are kept closed and properly stored.

**OTHER USE PRECAUTIONS:** Properly maintain a safety shower and an eyewash facility in the work area.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Characteristic.

**APPEARANCE:** Clear Liquid.

**COLOR:** Colorless

**pH:** 5.0 to 7.5 Neat

**PERCENT VOLATILE:** 98

**FLASH POINT AND METHOD:** 21°C (70°F) TCC

**AUTOIGNITION TEMPERATURE:** 363°C

**Notes:** Pure ethanol

**VAPOR PRESSURE:** 44.6 mm Hg

**Notes:** Pure ethanol

**VAPOR DENSITY:** 1.4 Air = 1.0

**BOILING POINT:** 80°C

**THERMAL DECOMPOSITION:** Not Determined.

**SOLUBILITY IN WATER:** Complete

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**EVAPORATION RATE:** 2.3 Butyl Acetate = 1

**SPECIFIC GRAVITY:** 0.887 to 0.888

**VISCOSITY #1:** at 20°C

**(VOC):** 68 to 72 % EPA Method 24

#### 10. STABILITY AND REACTIVITY

**REACTIVITY:** Does not react under normal conditions of use and storage.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**STABILITY:** Stable under normal conditions of use and storage.

**CONDITIONS TO AVOID:** Avoid excess heat and sources of ignition.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Combustion may produce oxides of carbon and smoke.

**INCOMPATIBLE MATERIALS:** Strong Acids. Strong Bases. Strong Oxidizers.

#### 11. TOXICOLOGICAL INFORMATION

##### ACUTE TOXICITY

**ORAL LD<sub>50</sub>:** 10470 g/kg (rat)

**Notes:** Ethanol, no experimental data available for the mixture.

**INHALATION LC<sub>50</sub>:** 117-125 mg/l, 4 hr, Rat

**Notes:** Ethanol, no experimental test data available for the mixture.

**SKIN CORROSION/IRRITATION:** Not Applicable

**SERIOUS EYE DAMAGE/IRRITATION:** Can cause irritation or serious eye damage

**RESPIRATORY OR SKIN SENSITISATION:** Not Applicable

**GERM CELL MUTAGENICITY:** Not Applicable

##### CARCINOGENICITY

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**NTP:** No component 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 component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NOTES:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**REPRODUCTIVE TOXICITY:** Not Applicable

**STOT-SINGLE EXPOSURE:** May cause drowsiness or dizziness.

**STOT-REPEATED EXPOSURE:** Not Applicable

**ASPIRATION HAZARD:** Not Applicable

#### 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**BIOACCUMULATION/ACCUMULATION:**

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Log K<sub>ow</sub> 0.3 (pure ethanol)

**DISTRIBUTION:** No data available

**AQUATIC TOXICITY (ACUTE)**

**96-HOUR LC<sub>50</sub>:** 11000 mg/l fish

**48-HOUR EC<sub>50</sub>:** 9268 mg/l Daphnia magna

**CHEMICAL FATE INFORMATION:** This product is biodegradable.

#### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of this product in accordance with all applicable local, state and federal regulations.

**PRODUCT DISPOSAL:** All recovered material should be packaged, labeled, transported and disposed or reclaimed in conformance with applicable law and regulations

**EMPTY CONTAINER:** Follow all SDS/label precautions even after container is emptied because it may retain product residues. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to heat, flame, sparks, static electricity, or sources of ignition.

**RCRA/EPA WASTE INFORMATION:** Ensure the use of properly authorized waste management companies, where appropriate.

**RCRA HAZARD CLASS:** D001 (Ignitable)

#### 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Alcohols, n.o.s.

**PRIMARY HAZARD CLASS/DIVISION:** 3

**UN/NA NUMBER:** UN1987

**PACKING GROUP:** III

**ROAD AND RAIL (ADR/RID)**

**PROPER SHIPPING NAME:** Alcohols, n.o.s.

**UN NUMBER:** UN1987

**HAZARD CLASS:** 3

**PACKING GROUP:** III

#### 15. REGULATORY INFORMATION

**UNITED STATES**

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/312 HEALTH HAZARDS:** Fire. Immediate Health. Delayed Health

**311/312 PHYSICAL HAZARDS:** Flammable Liquids

**313 REPORTABLE INGREDIENTS:** Not regulated.

**302/304 EMERGENCY PLANNING**

**EMERGENCY PLAN:** Not Regulated

**CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)**

**CERCLA REGULATORY:** This material is not subject to any special reporting.

**CERCLA RQ:** Not Applicable

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#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Ethyl Alcohol	64-17-5
Water	7732-18-5
Denatonium Benzoate	3734-33-6

**TSCA REGULATORY:** This product is not subject to TSCA 12(b) reporting requirements.

**TSCA STATUS:** This product and/or all of its components are included on the TSCA Inventory of Chemical Substances.

#### CLEAN AIR ACT

**40 CFR PART 68---RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE PREVENTION:** Not listed

**CLEAN AIR ACT (HAZARDOUS AIR POLLUTANTS):** Not regulated

#### REGULATIONS

**STATE REGULATIONS:** None known.

**LOCAL REGULATIONS:** None known.

**CALIFORNIA PROPOSITION 65:** **WARNING:** This product does not expose you to chemicals which are known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**CLEAN WATER ACT:** This product contains Carbomer which is a regulated pollutant pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CARCINOGEN:** None above de minimus levels (0.1%)

**FDA (FOOD AND DRUG ADMINISTRATION):**

Product NDC: 77040-268

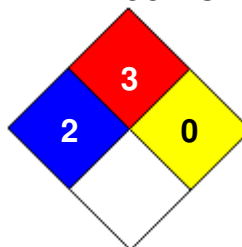
#### 16. OTHER INFORMATION

**PREPARED BY:** Jay Bartley      **Date Prepared:** 11/10/2020

##### HMIS RATING

HEALTH		2
FLAMMABILITY		3
PHYSICAL HAZARD		0
PERSONAL PROTECTION		

##### NFPA CODES



**MANUFACTURER SUPPLEMENTAL NOTES:** This SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product

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