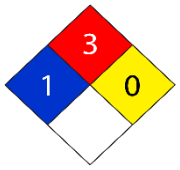
SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Name:	Pharma-Hol Sterile 70% Isopropyl Alcohol / 30% USP WFI
Product Numbers:	PAS703016797, PAS703032797, PAS7030G797, PAS703016797-FT
Manufacturer Name:	Acute Care Pharmaceuticals
Address:	12195 Dearborn Place Poway, CA 92064 USA
General Phone Number:	(888)-909-7700
Emergency Phone Number:	Chemtrec US: 800-424-9300
SDS Creation Date:	18 March 2015
SDS Revision Date:	20 June 2024

NFPA



HMIS

Health Hazard	1
Fire Hazard	3
Reactivity	0
Personal Protection	X

SECTION 2: HAZARD(S) IDENTIFICATION

GHS Pictograms:

Signal Word: Danger!

GHS Class:
Flammable Liquid, Category 3
Eye Irritant, Category 2
Specific Target Organ Toxicity, Single Exposure, Category 3

Hazard Settlements:
Flammable liquid and vapor
Causes serious eye irritation
May cause drowsiness or dizziness

Precautionary Statements:
Keep away from heat/sparks / open flames – No smoking.
Take precautionary measures against static discharge.
In case of fire: Use dry chemicals and carbon dioxide to extinguish small fires. Use water for large fires.
Wear protective gloves, protective clothing, and eye protection.
Avoid breathing mist/ vapors/ spray.
Store in a well-ventilated place. Keep the container tightly closed.
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 INHALED: Remove the victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician / if you feel unwell.
IF ON SKIN (or hair): Remove / immediately remove all contaminated clothing. Rinse in / with water/shower.
Dispose of contents/containers following Local, State, Federal, and Provincial regulations.

Emergency Overview: Danger! Flammable. Irritant. May cause drowsiness or dizziness. Pulmonary aspiration Hazard if swallowed.

Route of Exposure: Eyes, Skin Inhalation Ingestion

Potential Health Effects:

Eye: Eye contact with products or vapors may result in irritation, redness, and blurred vision. May cause pain disproportionate to the level of irritation to eye tissues. Vapor may cause eye irritation, which is experienced as mild discomfort and redness. It may cause moderate corneal injury.

Skin: It may cause irritation. Repeated exposure may cause a burning sensation, dryness, or cracking. Prolonged skin contact is unlikely to result in the absorption of harmful amounts.

Inhalation: Inhalation of vapors, fumes, or mists of the product may irritate the respiratory system. Excessive exposure (400 ppm) may cause eye, nose, and throat irritation. Higher levels may cause incoordination; confusion, hypotension, hypothermia, circulatory collapse, respiratory arrest, and death may follow a longer duration and higher levels. In confined or poorly ventilated areas, vapors can readily accumulate and cause unconsciousness and death.

Ingestion: Do not ingest. Not for human consumption. May cause irritation. Ingesting large amounts may cause injury. It may cause central nervous system depression, nausea, and vomiting. Aspiration of material into the lungs can cause chemical pneumonitis, which can be fatal.

Chronic Health Effects:	Prolonged or repeated contact may cause skin irritation. Repeated or prolonged inhalation may cause toxic effects.
Signs/Symptoms:	Overexposure may cause headaches and dizziness. Signs and symptoms of excessive exposure include facial flushing, low blood pressure, and irregular heartbeats.
Target Organs:	Eyes, Skin, Respiratory system, Digestive system.
Aggravation of Pre-Existing Conditions:	None generally recognized.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent	EC Number
Isopropyl Alcohol	67-63-0	70 by Volume	200-661-7

SECTION 4: FIRST AID MEASURES

Eye Contact:	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.
Skin Contact:	IF ON SKIN (or hair): Remove/Remove all contaminated clothing immediately. Rinse skin with water/shower. If skin irritation occurs, Get medical advice/attention.
Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point:	23 ºC (73 ºF)
Auto Ignition Temperature:	399 ºC (750 ºF)
Lower Flammable/Explosive Limit:	2.0 % by volume
Upper Flammable/Explosive Limit:	12.0 % by volume
Extinguishing Media:	Use alcohol-resistant foam, carbon dioxide, dry chemicals, or water fog spray when fighting fires involving this material.
Unsuitable Media:	Do not use a solid water stream as it may scatter and spread fire.
Protective Equipment:	As in any fire, wear a Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent), and full protective gear.
Unusual Fire Hazards:	Material burns with an invisible flame.
Hazardous Combustion Byproducts:	Oxides of carbon, oxides of nitrogen, and other organic substances may be formed.
Universal Fire and Explosion Hazards:	Vapors are heavier than air and may travel along the ground or may be moved by ventilation to locations distant from the point of material handling or release.
NFPA RATINGS	
NFPA Health	1
NFPA Flammability	3
NFPA Reactivity	0

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personnel Precautions: Evacuate the area and prevent unnecessary and protected personnel from entering the spill area. Avoid breathing vapor, aerosol, or mist. Avoid contact with skin, eyes, and clothing.

Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
Methods for containment:	Contain spills with inert absorbent material such as soil, sand, or oil dry.

Methods for cleanup: Remove all sources of ignition. Absorb or wipe any residual liquid and place it in a suitable container for proper disposal. Use appropriate protective apparel as described in Section 8. Avoid contact with skin and eyes.

SECTION 7: HANDLING AND STORAGE

Handling:	Use with adequate ventilation. Avoid breathing vapor and fumes. Follow directions only. When transferring material, reduce the potential for static discharge, bond, and ground containers.
Storage:	Store in a cool, dry, well-ventilated area away from heat sources, combustible materials, direct sunlight, and incompatible substances. Keep the container tightly closed when not in use. Avoid aldehydes, halogenated organics, halogens, strong acids, and strong oxidizers.
Hygiene Practices:	Wash thoroughly after handling. Avoid inhaling vapors, mists, or fumes.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION -- EXPOSURE GUIDELINES

Engineering Controls:	Use appropriate engineering controls such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Where such systems are effective, wear suitable personal protective equipment that performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection, and maintenance of personal protective equipment.
Eye/Face Protection:	Tightly fitting safety goggles. Wear a face shield when splash hazards exist.
Hand Protection Description:	Wear appropriate protective gloves. Consult glove manufacturer's data for permeability data. Preferred glove materials include polyethylene, neoprene, chlorinated polyethylene, natural rubber (latex), polyvinyl chloride (PVC or vinyl), nitrile/butadiene rubber (nitrile or NBR), ethyl vinyl alcohol laminate (EVAL). Avoid gloves made of polyvinyl alcohol (PVA).
Respiratory Protection:	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a respirator approved by NIOSH/MSHA or European Standard EN 149. Comply with the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a positive-pressure air-supplied respirator if there is a potential for an uncontrolled release, exposure levels are not known, or there are any other circumstances in which air-purifying respirators may not provide adequate protection.

EXPOSURE GUIDELINES

Isopropyl Alcohol

Guideline ACGIH:	TLV-TWA: 200ppm TLV-STEL: 400 ppm
Guideline OSHA:	PEL-TWA: 400ppm

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State Appearance:	Liquid
Odor:	Alcohol-like
Odor Threshold:	Not determined.
Boiling Point:	82-89 ºC (180-192 ºF)
Melting Point:	Soluble in water
Specific Gravity:	0.872 @ 20 ºC (68 ºF)
Solubility:	Not determined.
Vapor Density:	43.0 hPa (32 m m Hg) @ 20 ºC (68 ºF)
Percent Volatile:	100%
Evaporation Rate:	Not determined.
pH:	Not determined.
Viscosity:	Not determined.

The coefficient of Water/oil is not determined.
Distribution:

Flash Point:	23 ºC (73 ºF)
Auto Ignition Temperature:	399 ºC (750 ºF)

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable under average temperatures and pressures.
Hazardous Polymerization:	Not reported.
Conditions to Avoid:	Avoid heat, ignition sources, and incompatible materials.

Incompatible Materials:	Aldehydes, halogenated organics, halogens, strong acids, strong oxidizers.

SECTION 11: TOXICOLOGICAL INFORMATION

Isopropyl Alcohol

Eye:	Eye – Rabbit standardized test. : 100 mg Eye – Rabbit standardized test. : 10 mg Eye – Rabbit standardized test. : 100 mg/ 24H (RTECS)
Skin:	Administration onto the skin – Rabbit Standard Draize test. : 500 mg Administration onto the skin – Rabbit LD50: 12800 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
Inhalation:	Inhalation – Rat LC50: 16000 ppm/ 8H [Details of toxic effects not reported other than lethal dose value] Inhalation – Mouse LC50: 53000 mg/m3 [Behavioral – General anesthetic Lungs, Thorax, or Respiration – Other changes] (RTECS) Inhalation – Rat LC50: 72600 mg/m3 [Behavioral – General anesthetic Lungs, Thorax, or Respiration – Other changes] (RTECS)
Ingestion:	Ingestion: Oral – Rat LD50: 5045 mg/kg [Behavioral – Altered sleep time (including change in righting reflex) Behavioral – Somnolence (general depressed activity)]

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	No ecotoxicity data was found for the product.
Environmental Fate:	No environmental information found for this product.

Isopropyl Alcohol

Ecotoxicity:	LC50; Species: 1400000 ug/ L for 48 hr Crangon (Common Shrimp) LC50; 10000000 ug/L for 24 hr Species: Daphnia magna (Water Flea) LD50; >5000 mg/L for 24 hr Species: Carassius auratus (Goldfish) LC50; 11,130 m g/L for 48 hr Species: Pimephales promelas (Fathead Minnows)
Environmental Fate:	Isopropanol is expected to have very high mobility in soil.
Bioaccumulation:	Bioconcentration in aquatic organisms is low.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:	Prior to disposal, consult the US EPA Guideline, which is listed in 40 CFR Part 261.3 for hazardous waste classifications. Furthermore, consult your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal following the EPA and state and local guides.
Contaminated Packaging:	Do not reuse containers without proper cleaning or reconditioning.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name:	Flammable Liquid, n.o.s. (Isopropanol) Limited quantity.
DOT Hazard Class:	3
DOT Packing Group:	III
IATA Shipping Name:	Flammable Liquid, n.o.s. (Isopropanol)
IATA Hazard Class:	3
IATA Packing Group:	III
IMDG UN Number:	UN1993 (Limited quantity)
IMDG Shipping Name:	Flammable Liquid, n.o.s. (Isopropanol) Limited quantity.
IMDG Hazard Class:	3
IMDG Packing Group:	III

SECTION 15: REGULATORY INFORMATION

Canada WHMIS:	Controlled – Class B2 Flammable liquid

Isopropyl Alcohol

TSCA Inventory Status:	Listed
Canada DSL:	Listed
EC Number:	200-661-7
WHMIS Pictograms:	

SECTION 16: ADDITIONAL INFORMATION

HMIS Health Hazard:	1
HMIS Fire Hazard:	3
HMIS Reactivity:	0
Other:	The information contained herein is based on data available at this time and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, no responsibility is assumed for the results of its use. The person receiving this information shall determine the material's suitability for their particular use.
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