

DECON-AHOL® WFI 70%**MATERIAL SAFETY DATA SHEET**

COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200
(Complies with Commission Directive 91/155/EEC amended by 2001/58/EC)

I. Identification of Substance:

Product Name: DECON-AHOL® Sterile WFI Formula 70%

MSDS #: VEL-104

Description: 70% USP Isopropyl Alcohol with USP Water for Injection

<u>MSDS Information</u>	<u>Manufacturer Information</u>	<u>Emergency Telephone Information</u>
Date Prepared: November 6, 2002	Veltek Associates, Inc.	Notify your Supervisor
Prepared by:	15 Lee Boulevard	Emergencies Chemtrec (800) 424-9300
Art Vellutato, Jr.	Malvern, PA 19355-1234	24-hour service
V.P. Technical Support Operations	TEL: (610) 644-8335	
Reviewed by:		Effective Date: November 6, 2002
Art Vellutato, Sr.		Date Supersedes: 03/26/98
Technical Director		

II. Composition/Data on Components:

CHEMICAL OR COMMON NAME: ISOPROPYL ALCOHOL 70%

DATE ISSUED: 10/06/02

DATE SUPERSEDES: None

MSDS SECTION WITH CHANGES: None, New Issuance

<u>INGREDIENTS</u>	<u>WEIGHT %</u>	<u>EXPOSURE LIMIT</u>	<u>Special Issues</u>
Isopropyl Alcohol (CAS# 63-67-0)	70%	PEL/TWA: 400 PPM TLV/TWA: 400 PPM TLV/STEL: 500 PPM	
USP Water for Injection	30%	NA	
* Nitrogen Propellant (CAS# 7727-37-9)	90-130 psi	NA	* For aerosol containers only

HAZARD RATING

HIMIS RATING HEALTH 1 REACTIVITY 0 FLAMMABILITY 3 PERSONAL B

HAZARD RATINGS: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Extreme A = Safety Glasses B = Safety Glasses & Gloves

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III. Hazards Identification:

Aerosol Containers: 11-ounce aerosol (UN1950 aerosols, n.o.s., Flammable gas)

Bulk Containers: 8 oz., 16 oz., 1 Gallon and 5 Gallon (UN1219 Flammable Liquid)

PRODUCT CODES:

Part #	Description	Quan/cs.
DECWFI-SP-70	70% 11 oz. Aerosol Mist Spray Sterile	24
DECWFI-ST-70	70% 11 oz. Aerosol Stream Spray Sterile	24
DECWFI-SP-70-B	70% 11 oz. InvertaSpray Aerosol Mist Spray Sterile	24
DECWFI-ST-70-NSP	70% 8 oz. Non-Aerosol Mist Spray Sterile	24
DECWFI-SP-91	91% 11 oz. Aerosol Mist Spray Sterile	24
DECWFI-ST-91	91% 11 oz. Aerosol Stream Spray Sterile	24
DECWFI-B-60	60% 1 Gallon Sterile	4
DECWFI-B-70	70% 1 Gallon Sterile	4
DECWFI-B-91	91% 1 Gallon Sterile	4
DECWFI-TR-01	70% 16 oz. Trigger Spray Non-Sterile	12
DECWFI-TR-03	70% 16 oz. Trigger Spray Sterile	12
DECWFI-TR-04	70% 16 oz. Trig.Spray Sterile (Attached Sprayer)	12
DECWFI-TR-05	70% 32 oz. Trig.Spray Sterile (Attached Sprayer)	12
DECWFI-TR-07	70% 32 oz. Trig.Spray Non-Sterile (Attached Sprayer)	12
DECWFI-SQ-16Z	70% 16 oz. Squeeze Bottle Sterile (Individual Double Bag)	12
DECWFI-16Z	70% 16 oz. Squeeze Bottle Sterile (Single Double Bag)	12
DECWFI-SQ-03	70% 16 oz. Squeeze Bottle Sterile (Bulk Double Bag)	12
DECWFI-B-70-5G	70% 5 Gallon Sterile	1
DECWFI-B-91-5G	91% 5 Gallon Sterile	1
DECWFI-BAG-01	70% 32 OZ. Asepti-Cleanse Bags	8

IV. First Aid Measures:

INHALATION: May cause mild irritation to nose, respiratory tract and may result in central nervous system (CNS) depression.

SKIN CONTACT: Mildly irritating to skin (Do not use on skin)

SKIN ABSORPTION: Mildly irritating to skin (Do not use on skin)

EYE CONTACT: Moderately irritating

INGESTION: Generally considered a low order of acute oral toxicity

ACUTE: Irritation as noted above. CNS depression may be evidenced by giddiness, headache, dizziness, and nausea.

CHRONIC: Pre-existing skin, eye, and respiratory disorders may be aggravated by exposure to IPA.

FIRST AID PROCEDURES:

EYES: Immediately flush with plenty of water for at least 15 minutes while holding eyelids open. Obtain immediate medical attention.

SKIN: Flush skin with plenty of water. If Irritation occurs seek medical attention.

INHALATION: Remove victim to fresh air and provide oxygen if breathing is difficult, obtain medical attention.

INGESTION: Do not induce vomiting if victim is unconscious or drowsy. Otherwise, if within the first 15 minutes give syrup of

IPECAC, upon directions of physician or poison control center.

NOTES TO PHYSICIAN: Do not induce vomiting - FIRST contact poison control center, treatment depends on volume of substance, time elapsed, due to faster absorption.

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V. Firefighting Measures:

FLASH POINT (°F): 75°F

FLAMMABLE LIMITS: % Vol in Air LOWER-2% UPPER-12%

EXTINGUISHING MEDIA: Water Fog, Alcohol Foam, Dry Chemical, CO₂

SPECIAL FIRE FIGHTING PROCEDURES: Clear Fire area of unprotected personnel. Do not enter fire area without full bunker gear, helmet w/face shield, Bunker Coats, Gloves, Rubber Boots, Include a Positive pressure NIOSH Approved Self-Contained Breathing Apparatus, Cool fire exposed containers with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Containers exposed to intense heat should be cooled with water to prevent vapor build-up which could result in container rupture.

VI. Accidental Release Measures:**SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Spill or Leak Procedures: WARNING-FLAMMABLE. Eliminate all ignition sources. Equipment must be grounded to prevent sparking. Contain liquid with absorbent material and place in non-leaking container, seal tightly for disposal.

VII. Handling and Storage:

PRECAUTIONARY LABELING: See carton label for precautions

OTHER HANDLING AND STORAGE CONDITIONS: Do not Store above 120°F, Do not store in sunlight, spray in well ventilated area. Flammable Liquid. The contents are under pressure. Do not puncture, crush or incinerate the container in unapproved manner.

VIII. Exposure Control and Personal Protection:**SPECIAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION: If exposure may or does exceed occupation exposure limits (Sec V), use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1810.134 use either an atmosphere supplying respirator or an air purifying respirator for organic compounds.

VENTILATION: Use Explosion Proof Ventilation as required to control vapor concentrations.

PROTECTIVE GLOVES: Chemical Resistant Gloves

EYE PROTECTION: Avoid Contact. Wear Chemical Goggles

PROTECTIVE CLOTHING: Wear recommended clothing to reduce exposure

OTHER PROTECTIVE MEASURES: Do not contact skin, eyes, mouth or ingest. Eye wash fountains and showers should be available for emergency use.

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IX. Physical and Chemical Properties:

APPEARANCE/ODOR: Clear, Colorless Liquid

ODOR: Mild Alcohol Odor

VAPOR PRESSURE: 28 torr at 20°C

SOLUBILITY IN WATER: Complete

Physical and Chemical Properties (cont'):

FREEZING POINT: -10°C

PH: 7.0

VOC (as packaged, minus H₂O): 8.4 oz

SPECIFIC GRAVITY (H₂O=1): 0.872-883

PERCENTAGE VOLATILE BY VOLUME (%): 70%

VAPOR DENSITY (Air=1): 1.6

BOILING POINT (°F): 170°F

EVAPORATION RATE (Butyl Acetate-1): 1.7

THEORETICAL VOC (lb/gal): 7.34

X. Stability and Reactivity

STABILITY: Stable

STABILITY-CONDITIONS TO AVOID: Stable

INCOMPATIBILITY: see IPA requirements

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide and unidentified organic compounds may be formed during combustion.

HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS POLYMERIZATION-COND. TO AVOID: Will not occur

XI. Toxicological Information:

POISON CRITERIA:

Oral
5840mg/kg/Rat

Dermal
1300mg/kg/Rabbit

Inhalation
1200mg/L/Rat

XII. Ecological Information:

Consult local authorities pertaining to the release of material to the environment.

XIII. Disposal Considerations:

WASTE DISPOSAL INFORMATION:

Disposal: Container disposal regulation may vary with amount of liquid content remaining in container. Refer to latest Federal and State Regulations regarding proper disposal of ALL containers. If needed, consult manufacturer for assistance to obtain proper disposal guidelines for your area.

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XIV. Transport Information:**AEROSOL CONTAINERS**

Product	Description	Ground
DECWFI-SP-70	70% 11 oz. Aerosol Mist Spray Sterile	UN1950 Consumer Commodity
DECWFI-ST-70	70% 11 oz. Aerosol Stream Spray Sterile	UN1950 Consumer Commodity
DECWFI-SP-70-B	70% 11 oz. Aerosol Stream Spray Sterile	UN1950 Consumer Commodity
DECWFI-SP-91	91% 11 oz. Aerosol Mist Spray Sterile	UN1950 Consumer Commodity
DECWFI-ST-91	91% 11 oz. Aerosol Stream Spray Sterile	UN1950 Consumer Commodity

Transport Information (cont'):

Product	Description	Air
DECWFI-SP-70	70% 11 oz. Aerosol Mist Spray Sterile	UN1950 Flammable Gas
DECWFI-ST-70	70% 11 oz. Aerosol Stream Spray Sterile	UN1950 Flammable Gas
DECWFI-SP-70-B	70% 11 oz. Aerosol Stream Spray Sterile	UN1950 Flammable Gas
DECWFI-SP-91	91% 11 oz. Aerosol Mist Spray Sterile	UN1950 Flammable Gas
DECWFI-ST-91	91% 11 oz. Aerosol Stream Spray Sterile	UN1950 Flammable Gas

DOT SHIPPING NAME: AEROSOLS n.o.s. HAZARD CLASS: 2.1 ID NUMBER: UN1950

Shipping Instructions: UN1950:

Ground: Consumer Commodity

Ocean: Consumer Commodity

Air: 1950 n.o.s. Flammable Gas

BULK CONTAINERS

Product	Description	Ground or Air
DECWFI-NSP-70	70% 11 oz. Non-Aerosol Spray Sterile	UN1219 Flammable Liquid
DECWFI-B-60	60% 1 Gallon Sterile	UN1219 Flammable Liquid
DECWFI-B-70	70% 1 Gallon Sterile	UN1219 Flammable Liquid
DECWFI-B-91	91% 1 Gallon Sterile	UN1219 Flammable Liquid
DECWFI-TR-01	70% 16 oz. Trigger Spray Non-Sterile	UN1219 Flammable Liquid
DECWFI-TR-03	70% 16 oz. Trigger Spray Sterile	UN1219 Flammable Liquid
DECWFI-TR-04	70% 16 oz. Trig. Spray Sterile (Attached Sprayer)	UN1219 Flammable Liquid
DECWFI-SQ-16Z	70% 16 oz. Squeeze Bottle Sterile	UN1219 Flammable Liquid
DECWFI-B-70-5G	70% 5 Gallon Sterile	UN1219 Flammable Liquid
DECWFI-B-91-5G	91% 5 Gallon Sterile	UN1219 Flammable Liquid
DECWFI-SQ-03	70% 16 oz. Squeeze Bottle Sterile (Bulk)	UN1219 Flammable Liquid
DECWFI-BAG-01	70% 32 ounce Asepti-Cleanse Bag	UN1219 Flammable Liquid

DOT SHIPPING NAME: Isopropanol HAZARD CLASS: 3 ID NUMBER: UN1219

Shipping Instructions:

UN1219:

Ground: Isopropanol, LTD. QTY. UN1219

Ocean: Isopropanol, 3.2, UN1219, LTD. QTY.

Air: Isopropanol, 3.0, UN1219, PG II

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XV. Regulations:

PLEASE CONSULT YOUR STATE AND LOCAL AUTHORITY FOR INGREDIENTS LISTED AS PERTAINING TO REPORTING REQUIREMENTS FOR HAZARDOUS SUBSTANCE LIST.

No special regulation other than transportation and disposal (see section VII and section IX). Conform to Federal, State and Local Regulations for disposal. Follow usage instructions on container.

XVI. Other Information:

NA-Not Applicable, NE-Not Established, NSR-No Special Requirement, ND-Not determined for this product

The Information herein is given in good faith. No warranty, expressed or implied is made. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State and Local Laws and Regulations. The information contained in this form is confidential and is submitted solely for your organization's internal use.

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