

MSDS 1

DECON-AHOL- Sterile

WFI FORMULA

70%- Sterile Pharmaceutical Clean Room Formula

USP Isopropyl Alcohol with Water for Injection (WFI)

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)

Veltek Associates, Inc.

15 Lee Boulevard Malvern, PA 19355-1234

Tel: (610) 644-8335 Fax: (610) 644-8336 www.sterile.com

MSDS 2

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

MSDS Information
Emergency Telephone Information

Date Prepared: November 6, 2002
Notify your Supervisor

Emergencies Chemtrec (800) 424-9300

Manufacturer Information

Veltek Associates, Inc.

15 Lee Boulevard

Prepared by:

Art Vellutato, Jr.
24-hour service

Malvern, PA 19355-1234

V.P. Technical Support Operations

TEL: (610) 644-8335

Effective Date: November 6, 2002

Reviewed by:

Date Supersedes: 03/26/98

Art Vellutato, Sr.

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

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

HAZARD RATING

HIMIS RATING
FLAMMABILITY 3

HEALTH 1
PERSONAL B

REACTIVITY 0

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 # Quan/cs.	Description
DECWFI-SP-70 24	70% 11 oz. Aerosol Mist Spray Sterile
DECWFI-ST-70 24	70% 11 oz. Aerosol Stream Spray Sterile
DECWFI-SP-70-B 24	70% 11 oz. InvertaSpray Aerosol Mist Spray Sterile
DECWFI-ST-70-NSP 24	70% 8 oz. Non-Aerosol Mist Spray Sterile
DECWFI-SP-91 24	91% 11 oz. Aerosol Mist Spray Sterile
DECWFI-ST-91 24	91% 11 oz. Aerosol Stream Spray Sterile

DECWFI-B-60 4	60% 1 Gallon Sterile
DECWFI-B-70 4	70% 1 Gallon Sterile
DECWFI-B-91 4	91% 1 Gallon Sterile
DECWFI-TR-01 12	70% 16 oz. Trigger Spray Non-Sterile
DECWFI-TR-03 12	70% 16 oz. Trigger Spray Sterile
DECWFI-TR-04 12	70% 16 oz. Trig.Spray Sterile (Attached Sprayer)
DECWFI-TR-05 12	70% 32 oz. Trig.Spray Sterile (Attached Sprayer)
DECWFI-TR-07 Sprayer) 12	70% 32 oz. Trig.Spray Non-Sterile (Attached Sprayer)
DECWFI-SQ-16Z Double Bag) 12	70% 16 oz. Squeeze Bottle Sterile (Individual)
DECWFI-16Z Bag) 12	70% 16 oz. Squeeze Bottle Sterile (Single Double)
DECWFI-SQ-03 Bag) 12	70% 16 oz. Squeeze Bottle Sterile (Bulk Double)
DECWFI-B-70-5G 1	70% 5 Gallon Sterile
DECWFI-B-91-5G 1	91% 5 Gallon Sterile
DECWFI-BAG-01 8	70% 32 OZ. Asepti-Cleanse Bags

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 (oF): 75oF

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 120oF, 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 20oC

SOLUBILITY IN WATER: Complete

Physical and Chemical Properties (cont^{◆◆}):

FREEZING POINT: -10oC

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 (oF): 170oF
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
Dermal	Inhalation	
1300mg/kg/Rabbit	1200mg/L/Rat	5840mg/kg/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 Consumer Commodity	70% 11 oz. Aerosol Mist Spray Sterile	UN1950
DECWFI-ST-70 Consumer Commodity	70% 11 oz. Aerosol Stream Spray Sterile	UN1950
DECWFI-SP-70-B Consumer Commodity	70% 11 oz. Aerosol Stream Spray Sterile	UN1950
DECWFI-SP-91 Consumer Commodity	91% 11 oz. Aerosol Mist Spray Sterile	UN1950
DECWFI-ST-91 Consumer Commodity	91% 11 oz. Aerosol Stream Spray Sterile	UN1950

Transport Information (cont.   ?):

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

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

HAZARD CLASS: 2.1

Shipping Instructions: UN1950:

Ground: Consumer Commodity

Ocean: Consumer Commodity

Air: 1950 n.o.s. Flammable Gas

BULK CONTAINERS

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

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
NUMBER: UN1219

ID

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.