


MANWARD HEALTHCARE
**Material Safety
Data Sheet**
SECTION 1 – PRODUCT IDENTIFICATION

NAME Diabetes Care		ADDRESS D-231, Sector-10, Noida, (U.P.), 201301 INDIA	
TELEPHONE NUMBER 0120-4212752		DATE PREPARED May 20, 2006	
COMMON NAME (USED ON LABEL) 70% Isopropyl Alcohol Preps		CHEMICAL FAMILY Alcohol	
CHEMICAL NAME Isopropyl Alcohol		FORMULA (CH ₃) ₂ CHOH	
TRADE NAME & SYNONYMS Manward Alcohol Swabs			

SECTION 2 - COMPOSITION

HAZARDOUS COMPONENT	CAS #	%(WT)	TLV	PEL
Isopropyl Alcohol	67-63-0	70	980 Mg/M3	980 Mg/M3

PEL: Permissible Exposure Limit established by the Occupational Safety and Health Administration (OSHA).
TLV: Threshold Limit Value established by the American Conference of Governmental Industrial Hygienists, 1986-1987.

SECTION 3 – HAZARD IDENTIFICATION

Irritant (Xi) : R36 - Irritating to eyes.			
Highly flammable (F) : R11 - Highly flammable.			
Other : R67 - Vapors may cause drowsiness and dizziness.			
PRIMARY ROUTES OF EXPOSURE Skin, Eye, Inhalation or Ingestion			
SIGNS AND SYMPTOMS OF EXPOSURE Direct contact with eyes may result in irritation. Target Organs: Eyes, skin and respiratory			
(1) ACUTE OVEREXPOSURE tract.			
(2) CHRONIC OVEREXPOSURE - Prolonged contact with skin may result in drying or irritation. Prolonged inhalation of vapors may cause slight headaches or dizziness. Prolonged exposure to vapors may result in eye irritation.			
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE Isopropyl alcohol is not a known liver or kidney toxin; persons with impaired liver or renal function should limit exposure.			
CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN None	NTP ☺ Yes ☹ No	LARC ☺ Yes ☹ No	OSHA ☺ Yes ☹ No
OTHER EXPOSURE LIMITS None determined.			

SECTION 4 – FIRST AID MEASURES

EMERGENCY & FIRST AID PROCEDURES: EYE CONTACT: Flush with water for 15 minutes, seek medical attention. SKIN CONTACT: Flush with water for 15 minutes. INGESTION: Not likely; if ingestion occurs, do not induce vomiting, seek medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT 12 degrees C (Isopropyl Alcohol 99%)	FLAMMABLE LIMITS IN AIR (% by Volume) LOWER: 2.0% UPPER: 12.7%
EXTINGUISHING MEDIA Carbon Dioxide, alcohol foam or dry chemical	AUTO IGNITION TEMPERATURE 399 degrees C
UNUSUAL FIRE AND EXPLOSION HAZARDS None	
SPECIAL FIRE FIGHTING PROCEDURES Use self-contained breathing apparatus when in close proximity to fire.	

SECTION 6 – ACCIDENTIAL RELEASE MEASURES

8 STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition.
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WASTE DISPOSAL METHOD
Dispose of in accordance with applicable local, state and federal laws.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING
Store away from heat and ignition sources.

OTHER PRECAUTIONS
Not determined.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

RESPIRATORY PROTECTION
Respiratory protection is not required under normal use.

VENTILATION
For normal use - use in a well ventilated area.

PROTECTIVE GLOVES
Not required under normal use.

EYE PROTECTION
Not required under normal use.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT
Not required under normal use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT 82.4 degrees C	SPECIFIC GRAVITY (H ₂ O =1) .869 - .879 at 25 degrees C	VAPOR PRESSURE (mm Hg) 33mm at 20 degrees C
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PERCENT VOLATILE BY VOLUME (%) 100%	VAPOR DENSITY (AIR =1) 2.07	EVAPORATION RATE (Butyl Acetate =1) 2.88
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SOLUBILITY IN WATER Soluble	REACTIVITY IN WATER Does not apply	FLASH POINT 12 degrees C (Isopropyl Alcohol 99%)
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APPEARANCE AND ODOR
Saturated pad, colorless liquid with an alcohol odor.

SECTION 10 – STABILITY AND REACTIVITY DATA

STABILITY Unstable ☹ Stable ☺	CONDITIONS TO AVOID Sources of ignition, excessive heat
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INCOMPATIBILITY (MATERIALS TO AVOID)
Strong Oxidizers, acetaldehyde chlorine, ethylene oxide, acids, isocyanates

HAZARDOUS DECOMPOSITION PRODUCTS
Carbon monoxide, carbon dioxide.

HAZARDOUS POLYMERIZATION
May Occur ☺ Will not Occur ☹

SECTION 11 – TOXICOLOGICAL INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING
Store away from heat and ignition sources.

OTHER PRECAUTIONS
Not determined.

SECTION 12 – ECOLOGICAL INFORMATION

Environmental Fate:
This product is classified as a Volatile Organique Component according to Directive 1999/13/EC.
Mobility : Product completely soluble in water.
Persistence and Degradability : Easily biologically degradable.
By major discharge of product in surface waters, a lack of oxygen may occur.
Bioaccumulation : Little chance on bioaccumulation.
* Ecotoxicity : Ecotoxic up to a small extent.
Weak water pollutant (WGK 1).

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal
State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 – OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate. However, neither Manward healthcare and Company nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole

responsibility of the user. All materials may present unknown hazards and should be used with caution.