

MATERIAL SAFETY DATA SHEET

E4249
Applicator: Skin Protectant Prep Pad

UN1177 (Acetone for Label and Use)

HC #21
P.1

Section I

Manufacturer's Name
Aplicare, Inc.
Address (Number, Street, City, and ZIP Code)
50 East Industrial Road
Branford, CT 06405

Emergency Telephone Number
Chemtrec (800) 424-9300
Telephone Number for Information
(203) 481-0900
Date Prepared
July 1, 2003
Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identify Information

Hazardous Components (Specify Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Isopropyl Alcohol (CAS #67-63-0)	400 ppm			78.4
n-Butyl Alcohol (CAS #71-36-3)	100 ppm			6.1

I-453429 C-262830B DRM-D
I-447800 C-262830B DRM-D

Section III - Physical/Chemical Characteristics

Boiling Point (Isopropanol)	176°F	Specific Gravity (Water = 1)	0.852
Vapor Pressure (mm Hg) (Isopropanol)	90	Melting Point	N/A
Vapor Density (AIR = 1) (Isopropanol)	2.1	Evaporation Rate (Butyl Acetate = 1)	Unknown
Solubility in Water	Soluble		

Appearance and Odor

A clear, colorless liquid with a pungent, alcohol odor.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	<74°F (Closed cup)	Flammable Limits	LEL 2 UEL 12
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Extinguishing Media

Dry chemical or alcohol type foam

Special Fire Fighting Procedures

Use water to cool fire-exposed areas. Water spray may be ineffective in fighting fires.

Unusual Fire and Explosion Hazards

Respiratory protection required for fire fighting personnel. Stay upwind, if possible. Vapors may form, travel and ignite.

Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid	None known.
	Stable		

Incompatibility (Materials to Avoid)

Concentrated nitric and sulfuric acids, strong oxidizers, aldehydes and halogen compounds.

Hazardous Decomposition of Byproducts

Burning may produce carbon monoxide and carbon dioxide.

Hazardous Polymerization	May Occur	Conditions to Avoid	None known.
	Will Not Occur		

Section VI - Health Hazard Data

Route(s) of Entry	Eyes?	Inhalation?	Skin?	Ingestion?
	X	X	X	Unlikely

Health Hazards (Acute/Chronic)

Can be irritating to eyes, nose and throat. May cause dermatitis in some individuals after prolonged exposure.

Carcinogenicity	NTP?	IARC Monographs?	OSHA Regulated?
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Signs and Symptoms of Exposure

Irritation of eyes, nose and throat. May cause stinging of eyes and conjunctivitis.

Medical Conditions

Generally Aggravated by Exposure: Unknown.

Emergency and First Aid Procedures

Eyes: Flush with plenty of water and see a doctor.
Ingestion: Induce vomiting.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

It is unlikely that this product, when spilled, will cause a problem; packaged as individual packets containing 1-2 mL of solution.

Waste Disposal Method

Any solution that is spilled may be wiped up with toweling and disposed of with garbage.

Precautions to Be Taken in Handling and Storing

Avoid storing in excessive heat (greater than 104°F).

Other Precautions

None

Section VIII - CONTROL MEASURES

Respiratory Protection (Specify Type)	No personal protective equipment needed	Special	N/A
Ventilation (Local Exhaust)	X	Other	N/A
Mechanical (General)	N/A		
Protective Gloves	If desired	Eye Protection	If desired.
Other Protective Clothing or Equipment	None required		
Work/Hygiene Practices	Normal		

MATERIAL SAFETY DATA SHEET

S30055S, S10057S

HC#21
P.2

Aplicare Alcohol Swabsticks

UNCLP (See Section 14 for Label and Label)

Section I

Manufacturer's Name
Aplicare, Inc.
Address (Number, Street, City, and ZIP Code)
50 East Industrial Road
Branford, CT 06405

Emergency Telephone Number
Chemtrec (800) 424-9300
Telephone Number for Information
(203) 481-0500
Date Prepared
July 1, 2003
Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identify Information

Hazardous Components (Specific Chemical Name, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Isopropyl Alcohol (CAS #67-63-3)	400 ppm			70

Section III - Physical/Chemical Characteristics

Boiling Point	175°F	Specific Gravity (Water = 1)	0.878
Vapor Pressure (mm Hg.)	Approx. 90	Melting Point	N/A
Vapor Density (AIR = 1)	2.1	Evaporation Rate (Butyl Acetate = 1)	Unknown
Solubility in Water	Soluble		
Appearance and Odor	A clear, colorless liquid with a pungent, alcohol odor.		

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	53°F (Closed cup)	Flammable Limits	LEL 2 UEL 12
Extinguishing Media	Dry chemical or alcohol-type foam		
Special Fire Fighting Procedures	Use water to cool fire-exposed area. Water spray may be ineffective in fighting fires.		
Unusual Fire and Explosion Hazards	Respiratory protection required for fire fighting personnel. Stay upwind if possible. Vapors may form, travel and ignite.		

Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid	None known
	Stable		

Incompatibility (Materials to Avoid)

Concentrated nitric and sulfuric acids, strong oxidizers, aldehydes and halogen compounds.

Hazardous Decomposition of Byproducts

N/A

Hazardous Polymerization	May Occur	Conditions to Avoid	None known
	Will Not Occur		

Section VI - Health Hazard Data

Routes of Entry	Eyes?	Inhalation?	Skin?	Ingestion?
	X	N/A	X	Unlikely

Health Hazards (Acute/Chronic)
Slightly toxic if ingested; mildly irritating to eyes, nose and throat.

Carcinogenicity	NTP?	IARC Monographs?	OSHA Reg. listed?
	No	No	No

Signs and Symptoms of Exposure

If large amount is ingested, stomach cramps, pain, nausea, vomiting, drowsiness and diarrhea may occur. Headache may result from inhalation of an excessive amount.

Medical Conditions

Generally Aggravated by Exposure: Unknown

Emergency and First Aid Procedures

Eyes: Flush with plenty of water and see a doctor.

Ingestion: Give a few glasses of water and induce vomiting. Inhaled: Remove to fresh air.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Materials Are Released or Spilled

It is unlikely that this product, when spilled, will cause a problem; packaged as individual packets containing 2 - 8 mL of solution.

Waste Disposal Method

Any solution that is spilled may be wiped up with toweling and disposed of with garbage.

Section VIII - Precautions to Be Taken in Handling and Storing

Avoid storing in excessive heat (greater than 104°F).

Other Precautions

None

SECTION VIII - CONTROL MEASURES

Respiratory Protection (Specify Type)	No personal protective equipment needed.		
Ventilation	Local Exhaust	X	Special
	Mechanical (General)	N/A	Other
Protective Gloves	If desired	[Eye Protection:	If desired.
Other Protective Clothing or Equipment	None required		
Work Hygiene Practices	Normal		



HC # 21
p.3

MAI # 260500NS

MATERIAL SAFETY DATA SHEET

EMERGENCY CONTACT: CHEMTREC 1-800-424-9300 *

SECTION I IDENTIFICATION

Trade Name: Chloraprep 2.0% **Vendor:** Medi-Flex Hospital Products
Cross Reference: N/A **Formula:** Mixture

DOT Information

- **Carriage by Public Highway, Exempt**

Shipping Name: Isopropanol or Isopropyl Alcohol
Hazard Class: Flammable liquid 3
UN/NA Number: UN 1219
Exemption: Special Provision Code 47, Chapter 172.102, 49 CFR – this material is exempt from DOT Hazardous Materials Regulations. Small inner packagings consisting of sealed packets contain less than 10 ml of a class 3 liquid in packing group II are absorbed onto a solid material and there is no free liquid in the packet.

- **Air/Rail Transport**

Box is excepted because total quantity is below 5 liters for passenger aircraft and below 60 liters for cargo aircrafts.

SECTION II HAZARDOUS INGREDIENTS

CAS#: 67-63-0
DOT Hazard Class: Flammable liquid

Principle Hazardous Component(s)

Name	Health Hazard	%	Exposure Limits in air (ACGIH)
IPA Chlorhexidine Gluconate	Irritant: Eye	70% Weight 2% w/v	400 ppm (PEL/TLV)

* This number to be used only for spills, leaks, fire, exposure or accidents. Please direct all other inquiries to Medi-Flex at (915) 778-6421.

(2% CHG) 1 of 5 Pages



SECTION III PHYSICAL DATA

Boiling Point:	N/A	Melting Point:	Unknown
Vapor Pressure:	N/A	Specific Gravity:	0.880
Vapor Density:	N/A	% Volatile by volume:	100
Water Solubility:	Complete	Evaporation Rate:	Unknown
Appearance & Odor:	Clear, colorless liquid	pH	7.0 - 7.5

SECTION IV FIRE & EXPLOSION DATA

Flash point:	67° F TCC
Explosive Limits:	N/A
Extinguishing Media:	Water fog, alcohol fog, carbon dioxide, dry chemical halogenated agents.
Special Fire Fighting Procedures:	Self-contained breathing apparatus with full facepiece and protective clothing.
Unusual Fire & Explosion Hazards:	May explode if exposed to extreme heat or flame.

SECTION V REACTIVITY

Stability:	Stable; vapors are violent.
Incompatibility:	Oxidizing materials
Hazardous polymerization:	Will not occur.
Hazardous decomposition products	Carbon dioxide, carbon monoxide, nitrogen oxides, ammonia
Conditions to avoid:	Extreme heat or flame.

SECTION VI TOXICOLOGICAL PROPERTIES

Threshold Limit Value:	(TWA) N/A
Toxicity Information:	TSCA (Toxic Substances Control Act) Regulations 40 CFR 710: All ingredients are on the TSCA Section 8(b) inventory. CERCLA and SARA regulations (40 CFR 355.370 and 372): This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

Hazards & First Aid:

Skin:	Wash material off the skin with copious amounts of water. If redness, itching or a burning sensation develops, seek medical attention and discontinue use. See product label
Eyes:	Flush with copious amounts of water. After initial flushing remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and treated by medical personnel immediately. See product label. May irritate skin then causing dermatitis.



Hc #21
p.5

Ingestion: Give individual at least two glasses of water to drink. If gastrointestinal symptoms develop, consult medical personnel. (Never give anything by mouth to an unconscious person) Acute LD50 in rat is 19.1 ml/kg in males and 26.6 ml/kg in females.

SECTION VII PREVENTIVE MEASURES

Eye Protection: Safety glasses. Full faceshield in addition if splashing is possible.
Gloves: Rubber.
Respiratory: If needed, use MSIA-NIOSH approved respirator for organic vapors.
Ventilation: As need to stay below exposure limits.
Other: Apron.
Handling & storage: Avoid prolonged exposure (ingestion, inhalation, or skin). Avoid breathing vapors. Store in a cool dry, well-ventilated area. Keep container closed. Wear protective equipment.
Spills Procedure: For small spills, mop up and rinse to sewer serviced by a wastewater treatment facility. For large spills, eliminate sources of ignition and ventilate spill area. Wear skin, eye and respiratory protection during cleanup. Soak up liquid with absorbent and shovel into waste container. Cover container and remove from work area. Wash residue from spill area with water and flush to sewer serviced by a wastewater treatment facility.
Waste Disposal: Discarded products is not a hazardous waste under RCRA, 40 CFR 261.

SECTION VIII FIRST AID MEASURES

Skin: Wash material off the skin with copious amounts of water. If redness or a burning sensation develops, seek medical attention and discontinue use. See product Label.
Eyes: Flush with copious amounts of water. After initial flushing remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and treated by medical personnel immediately. See product label.
Ingestion: Give individual at least two glasses of water to drink. If gastrointestinal symptoms develop, consult medical personnel. (Never give anything by mouth to an unconscious person) Acute LD50 in rat is 19.1 ml/kg in males and 36.6 ml/kg in females.



HC #21
p. 6

SECTION IX PREPARATION INFORMATION

MEDI-FLEX HOSPITAL PRODUCTS, INC. **PHONE:** (915) 778-6421
19 Butterfield Trail Blvd. **MSDS DATE:** 08/02/01
El Paso, Texas 79906

ACGIH:	American Conference of Governmental Industrial Hygienist
IARC:	International Agency for Research on Cancer: Monographs
OSHA:	Occupational Safety and Health Administration
NTP:	National Toxicology Program: Annual Report on Carcinogens.
PEL:	Permissible exposure Level (OSHA)
TLV:	Threshold Limit Value
TWA:	Time Weighted Averages over 8 hours

(2% CHG) 4 of 5 Pages



Hc # 21
p.7

REVISION SUMMARY	
CAF NUMBER	2001-08-02
REVISION	A
DATE	08/01/01
SUMMARY OF CHANGE	Original document.

(2% CHG) 5 of 5 Pages