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Hc # 16

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MATERIAL SAFETY DATA SHEET

Aplicare Iocophor PVP Prep Pads

Section I

Manufacturer's Name: Aplicare, Inc

Address (Number, Street, City, and ZIP Code): 60 East Industrial Road, Branford, CT 06405

Emergency Telephone Number: Chemtrek (800) 424-9300

Telephone Number for Information: (203) 481-0500

Date Prepared: July 1, 2003

Signature of Preparer (optional):

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Iodine (CAS #7553-56-2)	0.1 ppm			

I-150051 C-6.1211 ORIH-D

Section III – Physical/Chemical Characteristics

Boiling Point	212°F	Specific Gravity (Water = 1)	1.04
Vapor Pressure (mm Hg.)	Unknown	Melting Point	N/A
Vapor Density (AIR = 1)	Unknown	Evaporation Rate (Butyl Acetate = 1)	Unknown

Solubility in Water: Soluble

Appearance and Odor: A dark brown liquid solution with a faint characteristic odor.

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
Unknown	Non-flammable	N/A	N/A

Extinguishing Media: Water, carbon dioxide, powder

Special Fire Fighting Procedures: None specified.

Unusual Fire and Explosion Hazards: Harsh iodine fumes are emitted when product is heated to greater than 176°F (80°C)

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid: None known
	Stable	X	

Incompatibility (Materials to Avoid): The elemental iodine is corrosive to some metals (i.e. iron), but is not corrosive to stainless steel

Hazardous Decomposition of Byproducts: N/A

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

Section VI – Health Hazard Data

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

Health Hazards (Acute/Chronic): May cause irritation to eyes.

Carcinogenicity	NTP?	IARC Monographs?	OSHA Regulated?
	N/A	N/A	N/A

Signs and Symptoms of Exposure: May cause irritation of eyes but should not cause irritation of respiratory tract or skin. May be harmful if swallowed.

Medical Conditions Generally Aggravated by Exposure: Unknown

Emergency and First Aid Procedures: Eyes: Flush with water for 15 minutes and seek physician if irritation persists. Ingestion: Give a suspension of starch or flour in water, induce emesis and call a physician

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 towelling 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.			
Ventilation	Local Exhaust	X	Special	N/A
	Mechanical (General)	N/A	Other	N/A
Protective Gloves	If desired	Eye Protection:	If desired.	
Other Protective Clothing or Equipment	None required			
Work/Hygienic Practices	Normal			

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MATERIAL SAFETY DATA SHEET

WEBCOL/CURITY Alcohol Prep Pads
KENDALL4 1.00 US EA MSDS_SDG

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	WEBCOL/CURITY Alcohol Prep Pads
Use/Size	Wound Cleaner
Product Numbers	5033, 5110, 5160, 5750, 6818, 86703
Manufacturer/Supplier	The Kendall Company
Address	15 Hampshire Street Mansfield, MA 02048
Phone Number	(508) 261-6000
Chemtrec Number	(800) 424-9300
Revision Date:	September 14, 1999

This MSDS has been compiled in accordance with - EC Directive 91/155/EC - OSHA's Hazcom Standard (29 CFR 1910.1200)

2. COMPOSITION/INFORMATION ON THE COMPONENTS

Component Name	CAS#/Codes	Concentration	R Phrases	Classification
Isopropyl alcohol	67-63-0 200-746-9	>60%	R11	F

3. HAZARD IDENTIFICATION

Main Hazards
R11 Highly flammable.

Routes of Entry
- Absorption - Eye contact - Ingestion - Inhalation - Skin contact

Carcinogenic Status
Not considered carcinogenic by NTP, IARC, and OSHA.

Target Organs
- Central Nervous System - Skin - Eye - Liver - Kidney - Lung

Health Effects - Eyes
Liquid, mist or vapor will cause conjunctival irritation and possibly corneal damage.

Health Effects - Skin
Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis. Liquid may be absorbed through the skin but not in toxicologically significant amounts, unless the area of contact is large and exposure prolonged.

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3. HAZARD IDENTIFICATION

Health Effects - Ingestion
Swallowing may have the following effects:
- irritation of mouth, throat and digestive tract - central nervous system depression
A large dose may have the following effects:
- dizziness - drowsiness - headache - mental confusion - nerve damage leading to numbness and muscle weakness - fall of blood pressure - liver damage - kidney damage - lung damage

Health Effects - Inhalation
Exposure to vapor may have the following effects:
- irritation of nose, throat and respiratory tract - central nervous system depression
Exposure to vapor at high concentrations may have the following effects:
- dizziness - drowsiness - headache - mental confusion - lung damage - fall of blood pressure - liver damage - kidney damage - nerve damage leading to numbness and muscle weakness

4. FIRST AID MEASURES

Eyes
Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin
Immediately flood the skin with large quantities of water, preferably under a shower. Remove contaminated clothing and continue washing . Contaminated clothing should be washed or dry-cleaned before re-use. Obtain medical attention if blistering occurs or redness persists.

Ingestion
Do not induce vomiting. Have victim drink 1-3 glasses of water to dilute stomach contents. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

Inhalation
Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

Advice to Physicians
Monitor for systemic secondary effects on liver and kidney; support and treat.

5. FIRE FIGHTING MEASURES

Extinguishing Media
Use foam, dry chemical or carbon dioxide. Be aware of the possibility of re-ignition. Keep containers and surroundings cool with water spray.

Unusual Fire and Explosion Hazards
Vapors can travel a considerable distance to a source of ignition and flashback. Flashback can occur

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5. FIRE FIGHTING MEASURES

If air temperature exceeds flash point. Be aware of possibility of re-ignition.

Protective Equipment for Fire-Fighting
Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Wear appropriate protective clothing. Eliminate all sources of ignition. Vapors can accumulate in low areas. Consider need for evacuation. Prevent the material from entering drains or water courses. Notify authorities if spill has entered water course or sewer or has contaminated soil or vegetation.

7. HANDLING AND STORAGE

Use in well ventilated area. Use local exhaust ventilation. Avoid inhaling vapor. Avoid contact with eyes, skin and clothing. Keep container tightly closed when not in use. Store away from sources of heat or ignition. Storage area should be: - cool - dry - well ventilated - away from incompatible materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards
Isopropyl alcohol
UK EH40: OES 400ppm (980mg/m3) 8h TWA.
UK EH40: OES 500ppm (1226mg/m3) 15min TWA.
ACGIH: TLV 400ppm (980mg/m3) 8h TWA.
ACGIH: STEL 500ppm (1225mg/m3) 15min TWA.
OSHA: PEL 400ppm (980mg/m3) 8h TWA.
Can be absorbed through skin.

Engineering Control Measures
Good general room ventilation is expected to be adequate to control airborne levels.

Respiratory Protection
Respiratory protection if there is a risk of exposure to high vapor concentrations. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

Hand Protection
Chemical resistant gloves
For isopropyl alcohol, gloves made of polyvinyl alcohol do not provide adequate protection.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection
Chemical goggles or safety glasses with side shields

Body Protection
If there is danger of splashing, wear: - overall or apron

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Non-woven cloth saturated with liquid
Color	Clear
Odor	Alcoholic
pH	No data.
Specific Gravity	0.8405
Boiling Range/Point (°C/F)	80 / 176
Melting Point (°C/F)	No data.
Flash Point (PMCC) (°C/F)	20 / 68
Vapor Pressure	No data.
Density	No data.
Solubility in Water	Miscible
Vapor Density (Air = 1)	2.1
Viscosity (cSt)	2.9 cps at <@2> °C.

10. STABILITY AND REACTIVITY

Stability
Stable under normal conditions.

Conditions to Avoid
- Heat - High temperatures - Static discharge - Exposure to direct sunlight - Mechanical shock

Materials to Avoid
- Strong oxidizing agents - Acids - Halogens - Aluminum - Acid anhydrides - Isopropyl alcohol may attack some forms of plastic, rubber and coatings

Hazardous Polymerization
Will not occur.

Hazardous Decomposition Products
- oxides of carbon

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11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Low order of acute toxicity predicted. Material may be harmful by skin absorption.
Isopropyl Alcohol: Dermal LD50 (rabbit) 12800mg/kg. Inhalation LCLO (rat) 1600ppm 4h

Chronic Toxicity/Carcinogenicity
This product is not expected to cause long term adverse health effects.
(Isopropyl Alcohol) IARC assessment: this product is not classifiable as to its carcinogenicity to humans (Group 3). Chronic/Subchronic studies resulted in adverse effects to: - liver - spleen - biochemical effects - brain tissue degeneration - changes in reflex behavior - sensory nerve damage

Reproductive/Developmental Toxicity
This product is not expected to cause reproductive or developmental health effects.
(Isopropyl Alcohol) Experimental studies in animals have provided some evidence of embryo/fetoxicity and birth defects only at doses producing marked maternal toxicity.

12. ECOLOGICAL INFORMATION

Mobility
No relevant studies identified.

Persistence/Degradability
No relevant studies identified.

Bio-accumulation
No relevant studies identified.

Ecotoxicity
(Isopropyl Alcohol)
Tests on the following species gave a 96h LC50 of 1150mg/litre: - brown shrimp
Tests on the following species gave a 96h LC50 of 6.12-9.64mg/litre: - fathead minnows

13. DISPOSAL

Dispose of in accordance with all applicable local and national regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near to the container. Do not incinerate closed containers. Empty containers may contain hazardous residues. Dispose of containers with care.

14. TRANSPORT INFORMATION

DOT CFR 172.101 Data Isopropanol Solution (3) Flammable Liquid, UN1219, PG II

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14. TRANSPORT INFORMATION

UN Proper Shipping Name	Isopropanol Solution
UN Class	(3) Flammable Liquid
UN Number	1219
UN Packaging Group	II

15. REGULATORY INFORMATION

Labelling Information



Highly flammable

EC Annex I Classification
F - Highly flammable

R phrases
R11 Highly flammable.

S phrases
S9 Keep container in a well ventilated place.
S16 Keep away from sources of ignition - No Smoking.
S33 Take precautionary measures against static discharges.
S43 In case of fire use: - carbon dioxide - dry chemical - foam

TSCA Listing
This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Inventory.

EINECS Listing
All ingredients in this product are listed on the European Inventory of Existing Commercial Chemical Substances (EINECS) or the European List of New Chemical Substances (ELINCS) or are exempt from listing.

DSL/NDSL (Canadian) Listing
All ingredients in this product are listed on the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL).

MA Right To Know Law
All components have been checked for inclusion on the Massachusetts Substance List (MSL).
Those components present at or above the de minimus concentration include: - Isopropyl Alcohol

PA Right To Know Law
This product contains the following chemicals found on the Pennsylvania Hazardous Substance List:
- Isopropyl Alcohol

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15. REGULATORY INFORMATION

NJ Right To Know Law
This product contains the following chemicals found on the NJ Right To Know Hazardous Substance List: - Isopropyl Alcohol

California Proposition 65
This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

SARA Title III Sect. 302 (EHS)
This product does not contain any chemicals subject to SARA Title III Section 302.

SARA Title III Sect. 304
This product does not contain any chemicals subject to SARA Title III Section 304.

SARA Title III Sect. 311/312 Categorization
Immediate (Acute) Health Hazard
Delayed (Chronic) Health Hazard
Flammable

SARA Title III Sect. 313
This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

16. OTHER INFORMATION

NFPA Ratings
NFPA Code for Flammability - 3
NFPA Code for Health - 1
NFPA Code for Reactivity - 0
NFPA Code for Special Hazards - None

HMIS Ratings
HMIS Code for Flammability - 3
HMIS Code for Health - 1
HMIS Code for Reactivity - 0
HMIS Code for Personal Protection - See Section 8

Abbreviations
N/A: Denotes no applicable information found or available
CAS#: Chemical Abstracts Service Number
ACGIH: American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health Administration

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16. OTHER INFORMATION

TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
NTP: National Toxicology Program
IARC: International Agency for Research on Cancer
R: Risk
S: Safety

Prepared By: EnviroNet LLC.

The information and recommendations presented in this MSDS are based on sources believed to be accurate, therefore, The Kendall Company assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the information for their particular purposes.