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Last Reviewed: 11 January, 2011

Uro-Prep<sup>®</sup> Protective Skin Barrier Wipes

Urocare Products, Inc. urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology and fire prevention as necessary or appropriate to the use and understanding of the data contained in the MSDS.

To promote safe handling, each customer or recipient should: (1) notify its employees, agents, contractors and others whom it knows or believes will use this material of the information regarding hazards or safety; (2) furnish this same information to each of its customers for the product; and (3) request its customers to notify their employees, customers and other users of the product of this information.

## SECTION 1 • CHEMICAL PRODUCT & COMPANY INFORMATION

- 1.1 Product Name: Uro-Prep<sup>®</sup> Protective Skin Barrier Wipes.
- 1.2 Catalog Code(s): 5500
- 1.3 Component CAS #(s): Isopropyl alcohol #67-63-0, Triethyl Citrate #77-93-0.
- 1.4 Synonym(s): Isopropanol, 2-Propanol; Triethyl Citrate, TEC.
- 1.5 Chemical Name: Mixture.
- 1.6 Manufacturer/Distributor: Urocare Products, Inc. 2735 Melbourne Ave., Pomona, CA 91767-1931, U. S. A.
- 1.7 For Information: (909) 621-6013 Monday ~ Thursday 7:30AM ~ 5:00PM (PST).
- 1.8 Emergency Contact: (800) 457-4280 (InfoTRAC 24 hour number).

## SECTION 2 • COMPOSITION & INFORMATION ON INGREDIENTS

- 2.1 This product is classified as a “flammable liquid” according to Title 29 of the Code of Federal Regulations, OSHA Section 1910.1200©, page 463. “Flammable liquid” means any liquid having a flashpoint below 100° F (37.8° C), except any mixture having components with flashpoints of 100° F (37.8° C), or higher, the total volume of which make up 99 percent or more of the total volume of the mixture.
- 2.2 This product does not contain asbestos or polychlorinated biphenyls.
- 2.3 Product Components:

<u>% by Volume</u>	<u>Material</u>	<u>CAS #</u>	<u>EINECS #</u>
75	Isopropyl Alcohol	67-63-0	200-661-0
15	Triethyl Citrate	77-93-0	201-070-7

### 2.4 HAZARD RATING

Hazard Rating	NFPA	HMIS	
Health	0	0	0 = Minimal
Fire	3	3	1 = Slight
Reactivity	0	0	2 = Moderate
Personal Protection	N/A	N/A	3 = Serious
			4 = Extreme

## SECTION 3 • HAZARDS IDENTIFICATION

- 3.1 Primary Routes of Contact: Oral and skin.

3.2 Exposure Guidelines (49CFR 1910.1200): Exposure Guidelines: Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting the regulatory requirements

%	Material	CAS #	EXPOSURE VALUE			
			OSHA	ACGIH	TLV	TWA
75	Isopropyl Alcohol	67-63-0	400 ppm	200 ppm	400 ppm	NE <sup>†</sup>
15	Triethyl Citrate	77-93-0	NE <sup>†</sup>	NE <sup>†</sup>	NE <sup>†</sup>	NE <sup>†</sup>

<sup>†</sup> Limit established by manufacturer. NE = Not Established.

3.3 ACUTE EXPOSURE: No serious effects are known.

3.3.1 SKIN ABSORPTION: Can occur. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

3.3.2 INHALATION: Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful. May cause drowsiness and be irritating, experienced as nasal discomfort and discharge, with dizziness, nausea, headache, unconsciousness, pulmonary edema, liver and kidney damage.

3.3.3 SKIN CONTACT: Causes irritation with discomfort, seen as local redness and possible swelling. Prolonged contact may result in drying and cracking of the skin due to a defatting action.

3.3.4 EYE CONTACT: Liquid causes irritation, experienced as stinging, excess blinking and tear production, blurred vision with excess redness and swelling of the conjunctiva and corneal clouding.

3.3.5 INGESTION: Expected to be a low ingestion hazard; however, product is toxic by ingestion and can cause abdominal irritation. Nausea, vomiting & diarrhea are likely to occur.

3.4 EFFECTS OF REPEATED OVEREXPOSURE: Chronic overexposure can cause damage to kidneys, blood, nerves, liver & lungs. Persons with severe skin, liver or kidney problems should avoid use.

3.5 Medical Conditions Aggravated by Exposure: Pre-existing eye and/or skin irritation, respiratory, and/or digestive disorders.

3.6 Significant Laboratory Data with Possible Relevance to Human Health Hazard Evaluation: None currently known.

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## SECTION 4 • FIRST AID MEASURES

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4.1 SWALLOWING: Do not give liquids if victim is unconscious or drowsy. Otherwise give no more than 2 glasses of water and induce vomiting. Obtain medical attention.

4.2 SKIN: Remove contaminated clothing, wipe off and wash with soap and water. Get medical attention if ill or irritation develops. Launder contaminated clothing before reuse.

4.3 INHALATION: Remove individual to fresh air. Give artificial respiration if not breathing. Qualified personnel may administer oxygen if breathing is difficult. Get medical attention.

4.4 EYES: Immediately flush with water for 15 minutes. Get medical attention if ill effects persist.

4.5 Notes to Physician: None.

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## SECTION 5 • FIRE AND EXPLOSION HAZARD

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5.1 Flash Point, Method Used: 56° F (13° C), Tag Closed Cup (TCC).

5.2 Autoignition (ASTM D2155): 750° F (399° C).

5.3 Flammable in Air by Volume at 100° F (38° C): LOWER: 2%, UPPER: 12.7%; Method Used: Small Scale Open Cap (SSOC).

5.4 Extinguishing Media: NFPA Class B extinguishers (Carbon Dioxide or foam) for Class I B liquid fires.

5.5 Unusual Fire and Explosion Hazards: **HIGHLY FLAMMABLE!! VAPORS CAN CAUSE FLASH FIRE.** Keep container tightly closed. Isolate from oxidizers, heat, sparks, electric equipment & open flame. Closed containers may explode if

exposed to extreme heat. Applying to hot surfaces requires special precautions. Empty container very hazardous! Continue all label precautions!

- 5.6 Special Fire Fighting Precautions: Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used.
- 5.7 Special Fire Fighting Equipment: Do not enter confined fire-space without full bunker gear (Helmet with face shield, bunker coats, gloves & rubber boots). Use NIOSH approved positive-pressure self-contained breathing apparatus. Evacuate area in case of overheating or fire.

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## SECTION 6 • ACCIDENTAL RELEASE MEASURES

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- 6.1 Small Spills: Spills are unlikely in purchased form.
- 6.2 Large Spills: Spills are unlikely in purchased form..
- 6.3 PROTECTIVE EQUIPMENT: None needed when used as directed or sold.
- 6.4 DOT (49CFR 171.8)/EPA (40CFR 117) SPILL REPORTING INFORMATION:
  - 6.4.1 Hazardous Substance: Spills are unlikely in purchased form. Isopropyl Alcohol, CAS #67-63-0.
  - 6.4.2 Reportable Quantity: Not applicable when dispensed as directed or sold.

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## SECTION 7 • HANDLING AND STORAGE

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- 7.1 Precautions to be taken in Handling and Storage: Normal precautions common to safe manufacturing practices should be followed in handling and storage. Keep container closed, in a cool, dry place. Keep well ventilated. Do not breathe fumes and avoid skin contact. Flammable. Harmful if swallowed contacts skin and/or inhaled. Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse. Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, saw, drill, braze, or weld empty container—very hazardous! Continue all label precautions!
- 7.2 Materials to Avoid: Isolate from oxidizers, heat, sparks, electric equipment & open flame. WARNING! Hot organic chemical vapors or mists are susceptible to sudden spontaneous combustion when mixed with air. Ignition may occur at temperatures below those published in the literature as "autoignition" or "ignition" temperatures. Ignition temperatures decrease with increasing vapor volume and vapor/air contact time and are influenced by pressure changes.  
  
Ignition may occur at typical elevated-temperature process conditions, especially in processes operation under vacuum if subjected to sudden ingress of air or outside process equipment operating under elevated pressure if sudden escape of vapors or mists into the atmosphere occurs. Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

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## SECTION 8 • EXPOSURE CONTROLS/PERSONAL PROTECTION

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- 8.1 Engineering Controls: Adequate general ventilation; otherwise, a mechanical, local exhaust is recommended.
- 8.2 PERSONAL PROTECTION: Not applicable when dispensed as directed or sold.

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## SECTION 9 • PHYSICAL & CHEMICAL PROPERTIES

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- 9.1 Appearance and Odor: A Fabric saturated with a clear colorless liquid with a mild alcohol odor.
- 9.2 Boiling Point: 176° ~ 182°F (80° ~ C).
- 9.3 Autoignition Point: Not applicable.
- 9.4 Dielectric Strength: Not available.
- 9.5 Evaporation Rate (Butyl Acetate=1): 1.7.
- 9.6 Freezing/Melting Point: -127.3° F (-88.5° C), Not applicable.

- 9.7 Percent Volatile by Weight (%): 50%.
- 9.8 PH: Not applicable.
- 9.9 Pour Point: Similar to water.
- 9.10 Solubility in Water: Miscible with water, ethyl ether, and ethyl alcohol.
- 9.11 Specific Gravity (H<sub>2</sub>O=1 at 68° F (20° C)): 0.78.
- 9.12 Vapor Density (Air=1 at 68° F (20° C)): 2.1.
- 9.13 Vapor Pressure (at 68° F (20° C)): 33 mm Hg.
- 9.14 Viscosity: Similar to water.

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## SECTION 10 • STABILITY AND REACTIVITY

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- 10.1 Stability: Stable under normal conditions.
- 10.2 Conditions to Avoid: Isolate from oxidizers, heat, sparks, electric equipment & open flame.
- 10.3 Incompatibility (Material to Avoid): Isolate from strong oxidizers such as permanganates, chromates & peroxides. Do not store or handle in aluminum equipment at temperatures above 120° F (49° C).
- 10.4 Hazardous Combustion or Decomposition Products: Carbon Monoxide, Carbon Dioxide and unidentified organic compounds may be formed during combustion. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant. Acute overexposure to the product of combustion may result in irritation of the respiratory tract.
- 10.5 Hazardous Polymerization: Will not occur.

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## SECTION 11 • TOXICOLOGICAL INFORMATION

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### 11.1 Toxicity to Animals:

Component:	<u>Isopropyl alcohol</u>	<u>Triethyl Citrate</u>
Acute Oral LD <sub>50</sub> (mg/kg):	5,045 (Rat)	3,500 (Cat)
Acute Inhalation LC <sub>50</sub> (mg/kg):	16,000 ppm/8 hours (Rat)	1,592.2ppm/4 hours (Rat)
Acute Dermal LD <sub>50</sub> (mg/kg):	12,800 (Rabbit)	> 5,000 (Rabbit)
Skin Irritation:	500 mg Mild, Draize test (Rabbit)	Not available
Skin Sensitization	Not determined	Not available
Eye Irritation:	100 mg Severe, 10 mg Moderate, Draize test (Rabbit)	Not available

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## SECTION 12 • ECOLOGICAL INFORMATION

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- 12.1 Ecotoxicological Information: This product has a high biochemical oxygen demand and a potential to cause oxygen depletion in aqueous systems, a low potential to affect aquatic organisms, a low potential to affect secondary waste treatment microbial metabolism, a low potential to affect the germination of some plants, a high potential to biodegrade (low persistence) with unacclimated microorganisms from activated sludge.
- 12.2 Chemical Fate Information: Not available.

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## SECTION 13 • DISPOSAL CONSIDERATIONS

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- 13.1 Waste Disposal Methods: The product is biodegradable and the products of biodegradation are less toxic than the product itself. In its purchased form, the product does not require any special disposal methods; however, disposal in accordance with applicable local, county, state and federal regulations is recommended.

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## SECTION 14 • TRANSPORTATION INFORMATION

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### 14.1 MATERIAL IDENTIFICATION

Authority <sup>†</sup>	Proper Shipping Name	Hazard Class	Hazard Label	UN #	Packing Group
DOT	Consumer Commodity ORM-D	N/A	N/A	N/A	N/A
CTDG	Isopropyl Alcohol	3	Flammable Liquid	UN1219	II
ICAO/IATA	Isopropyl Alcohol	3	Flammable Liquid	UN1173	II
IMO/IMDG	Isopropyl Alcohol	3	Flammable Liquid	UN1173	II



<sup>†</sup> Labeling: The product in its purchased form is exempt from labeling requirements in containers under 0.08 gallons (.3 Liter). Regulation 49CFR § 173.118(a).

14.2 C.H.I.P. Regulations:

Designation: Protective Skin Barrier Wipes  
 Symbol: F, Xi, N  
 Indication of Danger: Flammable, Harmful, Environment  
 Safety Phrases: S3/S7/S8/S9/S23/S24  
 Risk Phrases: R10/R20/R22 (Refer to § 7 "STORAGE & HANDLING")



**SECTION 15 • OTHER REGULATORY INFORMATION**

- 15.1 C.H.I.P. (Chemicals Hazards Information & Packaging) Regulation 1993 Requirements: Physicochemical and health hazard determination of all substances and preparations manufactured, transported, stored, modified or consumed within the EEC. Components present in this product at a level, which could require reporting under the statute, are: Not regulated in its purchased form.
- 15.2 The Comprehensive OSHA Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA): OSHA Compliance: MSDS Prepared in accordance with OSHA 29CFR 1910.1200 to comply with the Hazard Communication Standard: Not regulated in its purchased form.
- 15.3 Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III: The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQ's) and release reporting based on Reportable Quantities (RQ's) in 40 CFR 355 (used for SARA 302, 304, 311 and 312). Components present in this product at a level which could require reporting under the statute are: Not regulated in its purchased form.
- 15.4 The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III also requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). Components present in this product at a level, which could require reporting under the statute, are: Not regulated in its purchased form.
- 15.5 INVENTORY STATUS: Yes, the ingredients are on or exempt from listing on the inventories of: United States (TSCA), Canada (DSL), Europe (EINECS/ELINCS), Australia (AICS), Japan (MITI) and South Korea (KECL).
- 15.6 RCRA Classification: This product has been evaluated for RCRA characteristics and does not meet the criteria for a hazardous waste, if discarded in its purchased form.
- 15.7 OSHA Compliance: MSDS Prepared in accordance with OSHA 29 CFR 1910.1200 to comply with the Hazard Communication Standard.
- 15.8 STATE RIGHT-TO-KNOW COMPLIANCE
- 15.8.1 California Proposition 65: This product contains no levels of listed substances, which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute.
- 15.8.2 Southern California AQMD: This Product Meets Requirements of Rule 443.1 & Similar Regulations.
- 15.8.3 Right-To-Know, Substance and Spill Lists: California, Connecticut, Illinois, New York, Rhode Island, Pennsylvania, Florida, Minnesota, Massachusetts, New Jersey, Louisiana, California Director's list of Hazardous Substances: Isopropyl Alcohol.
- 15.9 EPA Hazard Categories: Fire Hazard.

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**SECTION 16 • DISCLAIMER**

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The information contained herein is current as of the date of this Material Safety Data Sheet and is furnished in good faith as typical values and not as a product specification. No warranty of any kind, either expressed or implied, is hereby made. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of Urocare products, Inc., users should consider this data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety of employees and customers.

**KEY**

CERCLA..... Comprehensive Environmental Response, Compensation, and Liability Act  
CTDG ..... Canadian Transportation of Dangerous Goods  
DOT ..... Department of Transportation  
EPA ..... Environmental Protection Agency  
HMIS ..... Hazardous Materials Identification System  
IATA ..... International Air Transport Authority  
IARC ..... International Agency for Research on Cancer  
ICAO ..... International Civil Aviation Organization  
IMDG ..... International Maritime Dangerous Goods code  
IMO ..... International Maritime Organization  
NTP ..... Nation Toxicology Program  
OSHA ..... Occupational Safety and health Administration  
RCRA ..... Resource Conservation and Recovery Act  
SARA ..... Superfund Amendments and Reauthorization Act