PURITAN MEDICAL PRODUCTS COMPANY LLC

Safety Data Sheet

Rev. 03 April 20, 2015

1. Product and company identification

Product name: Self-Saturating Popule[®] pre-filled with 91% Isopropyl Alcohol and 9% Distilled Water

Product number: 4545

Company identification:

Puritan Medical Products Company LLC P.O. Box 149, 31 School Street Guilford, Maine 04443-0149 U.S.A. Contact numbers: Tel: +1 207-876-3311 Fax: + 1 207-876-3130

2. Hazards Identification

This material is hazardous according to regulatory guidelines (see (M)SDS Section 15).

Classification:

Flammable liquid: Category 2 Eye irritation: Category 2A Special target organ toxicant (central nervous system): Category 3.

Label: Pictogram



Signal word: Danger

Hazard Statements:

H225: Highly flammable liquid and vapor. H319: Causes eye irritation. H336: May cause drowsiness or dizziness.

Precautionary Statements:

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233: Keep container tightly closed. P240: Ground bond container and receiving equipment. P241: Use explosion-proof electrical, ventilating, and lighting equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P261: Avoid breathing mist/vapors. P264: Wash skin thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves and eye/face protection. P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312: Call a POISON CENTER or doctor/physician if you feel unwell. P337 + P313: If eye irritation persists: Get medical advice/attention. P370 + P378: In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish. P403 + P235: Store in well-ventilated place. Keep cool. P405: Store locked up. P501: Dispose of contents and container in accordance with local regulations.

Physical / Chemical Hazards:

Material can release vapors that readily form flammable mixtures. Vapor accumulation could flash and/or explode if ignited.

Health Hazards:			
May be irritating to t	he skin, nose, throat, ai	nd lungs. May cause cen	tral nervous system depression. If
swallowed, may be a	spirated and cause lung	g damage.	
Environmental Haza	rds:		
NFPA Hazard ID:	Health: 2	Flammability: 3	Reactivity: (
HMIS Hazard ID:	Health: 2*	Flammability: 3	Reactivity: (
	es have shown that che		he intended use in Section 1 without expert se potential human health risks which may
3. Composition/info	rmation on ingredients		
This material is define	ed as a substance.		
Hazardous Substanc	e(s) or Complex Substa	ance(s) required for discl	osure.
Name		Concentration*	GHS Hazard Codes
ISOPROPYL ALCOHOL		100%	
	-	100/0	H225, H305, H336,
		1	H319(2A)
* All concentrations a		1	
* All concentrations a volume.	are percent by weight u	inless material is a gas.	H319(2A) Gas concentrations are in percent by
* All concentrations a volume. As per paragraph (i) c	are percent by weight u of 29 CFR 1910.1200, fo	inless material is a gas.	H319(2A) Gas concentrations are in percent by
* All concentrations a volume. As per paragraph (i) c and exact percentage	are percent by weight u of 29 CFR 1910.1200, fo e (concentration) of cor	nless material is a gas. ormulation is considered nposition may have beer	H319(2A) Gas concentrations are in percent by a trade secret and specific chemical identity
* All concentrations a volume. As per paragraph (i) c and exact percentage exact percentage will	are percent by weight u of 29 CFR 1910.1200, fo e (concentration) of cor	inless material is a gas. ormulation is considered nposition may have beer professionals, employee	H319(2A) Gas concentrations are in percent by a trade secret and specific chemical identity withheld. Specific chemical identity and
* All concentrations a volume. As per paragraph (i) c and exact percentage exact percentage will accordance with app	are percent by weight u of 29 CFR 1910.1200, fo e (concentration) of cor I be provided to health licable provisions of par	inless material is a gas. ormulation is considered nposition may have beer professionals, employee	H319(2A) Gas concentrations are in percent by a trade secret and specific chemical identity withheld. Specific chemical identity and
* All concentrations a volume. As per paragraph (i) o and exact percentage exact percentage will accordance with app 4. First-aid measures	are percent by weight u of 29 CFR 1910.1200, fo e (concentration) of cor l be provided to health licable provisions of par	inless material is a gas. ormulation is considered nposition may have beer professionals, employee ragraph (i).	H319(2A) Gas concentrations are in percent by a trade secret and specific chemical identity withheld. Specific chemical identity and s, or designated representatives in
* All concentrations a volume. As per paragraph (i) o and exact percentage exact percentage will accordance with app 4. First-aid measures Inhalation: Remove	are percent by weight u of 29 CFR 1910.1200, fo e (concentration) of cor I be provided to health licable provisions of par s e from further exposure	inless material is a gas. ormulation is considered nposition may have beer professionals, employee ragraph (i).	H319(2A) Gas concentrations are in percent by a trade secret and specific chemical identity withheld. Specific chemical identity and
* All concentrations a volume. As per paragraph (i) o and exact percentage exact percentage will accordance with app 4. First-aid measures Inhalation: Remove others. Use adequat	are percent by weight u of 29 CFR 1910.1200, fo e (concentration) of cor l be provided to health licable provisions of par s e from further exposure e respiratory protection	inless material is a gas. ormulation is considered nposition may have beer professionals, employee ragraph (i). e. For those providing as n. If respiratory irritation	H319(2A) Gas concentrations are in percent by a trade secret and specific chemical identity withheld. Specific chemical identity and s, or designated representatives in
* All concentrations a volume. As per paragraph (i) o and exact percentage exact percentage will accordance with app 4. First-aid measures Inhalation: Remove others. Use adequat occurs, seek immedia	are percent by weight u of 29 CFR 1910.1200, fo e (concentration) of cor l be provided to health licable provisions of par s e from further exposure e respiratory protection ate medical assistance.	inless material is a gas. ormulation is considered nposition may have beer professionals, employee ragraph (i). e. For those providing as n. If respiratory irritation	H319(2A) Gas concentrations are in percent by a trade secret and specific chemical identity withheld. Specific chemical identity and s, or designated representatives in sistance, avoid exposure to yourself or a, dizziness, nauseas, or unconsciousness
* All concentrations a volume. As per paragraph (i) of and exact percentage exact percentage will accordance with app 4. First-aid measures Inhalation: Remove others. Use adequat occurs, seek immedia or use mouth-to-mou	are percent by weight u of 29 CFR 1910.1200, fo e (concentration) of cor l be provided to health licable provisions of par e from further exposure e respiratory protection ate medical assistance. uth resuscitation.	inless material is a gas. ormulation is considered nposition may have beer professionals, employee ragraph (i). e. For those providing as n. If respiratory irritation If breathing has stopped	H319(2A) Gas concentrations are in percent by a trade secret and specific chemical identity withheld. Specific chemical identity and s, or designated representatives in sistance, avoid exposure to yourself or a, dizziness, nauseas, or unconsciousness a dizziness ventilation with a mechanical device
* All concentrations a volume. As per paragraph (i) of and exact percentage exact percentage will accordance with app 4. First-aid measures Inhalation: Remove others. Use adequat occurs, seek immedia or use mouth-to-mou	are percent by weight u of 29 CFR 1910.1200, fo e (concentration) of cor l be provided to health licable provisions of par e from further exposure e respiratory protection ate medical assistance. uth resuscitation. contact areas with soap	inless material is a gas. ormulation is considered nposition may have beer professionals, employee ragraph (i). e. For those providing as n. If respiratory irritation If breathing has stopped	H319(2A) Gas concentrations are in percent by a trade secret and specific chemical identity withheld. Specific chemical identity and s, or designated representatives in sistance, avoid exposure to yourself or a, dizziness, nauseas, or unconsciousness

Ingestion: Seek immediate medical attention. Do not induce vomiting.

Note to Physician: If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

5. Fire-fighting measures

Extinguishing media:

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Inappropriate Extinguishing Media: Straight streams of water.

Fire Fighting:

Fire Fighting Instructions: Evacuate area. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop a leak. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards: Highly flammable. Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Hazardous material. Firefighters should consider protective equipment indicated in Section 8.

Hazardous Combustion Products: Smoke, Fume, Incomplete combustion product, Oxides of carbon

Flammability Properties: Flash Point [Method]: 12°C (54°F) [ASTM D-56] Flammable Limits (Approximate volume % in air): LEL: 2.0 UEL: 13 Auto ignition Temperature: >350°C (662°F) [Technical literature)

6. Accidental release measures

Notification Procedures: In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

Protective Measures: Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required due to toxicity or flammability of the material. See section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgement of the emergency responders.

Spill Management:

Land Spill: Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do it without risk. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Prevent entry into waterways, sewer, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Large spills: Water spray may reduce vapor; but may not prevent ignition in closed spaces. Recover by pumping or with

Water Spill: Stop leak if you can do it without risk. Eliminate sources of ignition. Warn other shipping. Seek the advice of a specialist before using dispersants. Water spill and land spill commendations are based on the most likely spill scenario for this material; however, geographical conditions, wind, temperature, (and in the case of water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

Environmental Precautions: Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

7. Handling and Storage

Handling: Avoid contact with eyes. Prevent exposure to ignition sources, for example use non-sparking tools and explosion-proof equipment. Potentially toxic/irritating fumes/vapors may be evolved from heated or agitated material. Use only with adequate ventilation. Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation. Peroxides may form upon prolonged storage. Exposure to light, heat or air significantly increases peroxide formation. If evaporated to a residue, the mixture of peroxides residue and material vapor may explode when exposed to heat or shock. Prevent small spills and leakage to avoid slip hazard.

Loading/Unloading 1	emperature:					
Transport Temperat	ure:					
Transport Pressure:						
Static Accumulator:			This mater	ial is not a st	atic accumulator.	
container closed. Ha in a cool, well-ventila	ndle containers ited area. Outsic torage container	with care de or det rs, transfe	e. Open slo ached stora er containe	wly in order age preferred	to control possible d. Storage contain	s recommended. Kee e pressure release. St ers should be ground hould be grounded an
Storage Temperatur	e					
Storage Pressure:						
Suitable Containers/Packaging:			Drums; Tai	nk Cars; Tanl	<pre>K Trucks; Tankers;</pre>	Barges
Suitable Materials and Coatings:		Carbon Steel; Stainless Steel; Polyester; Teflon; Polyethylene;				
Suitable Materials a	nd Coatings:		Carbon Ste	ei, stanness	Steel, I blyester, I	enony rory enryreine,
Suitable Materials a	id Coatings:				•	enolic; Zinc; Vinyls
	-		Polypropyl	ene; Copper	Bronze; Epoxy Ph	
Suitable Materials an Unsuitable Materials	-		Polypropyl Aluminum;	lene; Copper ; Cast Iron; P	Bronze; Epoxy Ph	enolic; Zinc; Vinyls ne-propylene-diene
	and Coatings:	ection	Polypropyl Aluminum;	lene; Copper ; Cast Iron; P	Bronze; Epoxy Pholystyrene; Ethyle	enolic; Zinc; Vinyls ne-propylene-diene
Unsuitable Material	and Coatings: /personal prote	ection	Polypropyl Aluminum;	lene; Copper ; Cast Iron; P	Bronze; Epoxy Pholystyrene; Ethyle	enolic; Zinc; Vinyls ne-propylene-diene
Unsuitable Materials 8. Exposure controls Exposure Limit Value	s and Coatings: /personal prote		Polypropyl Aluminum; monomer	lene; Copper ; Cast Iron; P (EPDM); Mo	Bronze; Epoxy Pholystyrene; Ethyle	enolic; Zinc; Vinyls ne-propylene-diene
Unsuitable Materials	s and Coatings: <mark>s/personal prote</mark> es dards (Note: Exp		Polypropyl Aluminum; monomer	lene; Copper ; Cast Iron; P (EPDM); Mo • t additive)	Bronze; Epoxy Pholystyrene; Ethyle	enolic; Zinc; Vinyls ne-propylene-diene
Unsuitable Materials 8. Exposure controls Exposure Limit Value Exposure limits/stan Substance Name	s and Coatings: <mark>s/personal prote</mark> es dards (Note: Exp	posure li	Polypropyl Aluminum; monomer mits are no Limit Stand	lene; Copper ; Cast Iron; P (EPDM); Mo • t additive)	Bronze; Epoxy Pholystyrene; Ethyle nel; Butyl Rubber;	enolic; Zinc; Vinyls ne-propylene-diene Natural Rubber
Unsuitable Materials 8. Exposure controls Exposure Limit Value Exposure limits/stan Substance Name	s and Coatings: <mark>s/personal prote</mark> es dards (Note: Exp	posure li	Polypropyl Aluminum; monomer mits are no Limit Stand TWA 980 n	lene; Copper ; Cast Iron; P (EPDM); Mo t additive) dard ng/m3 400	Bronze; Epoxy Pho olystyrene; Ethyle nel; Butyl Rubber; Note	enolic; Zinc; Vinyls ne-propylene-diene Natural Rubber Source
Unsuitable Materials 8. Exposure controls Exposure Limit Value Exposure limits/stan	s and Coatings: <mark>s/personal prote</mark> es dards (Note: Exp	posure li	Polypropyl Aluminum; monomer mits are no Limit Stand TWA 980 n ppm	lene; Copper ; Cast Iron; P (EPDM); Mo t additive) dard ng/m3 400	Bronze; Epoxy Pho olystyrene; Ethyle nel; Butyl Rubber; Note N/A	enolic; Zinc; Vinyls ne-propylene-diene Natural Rubber Source OSHA Z1
Unsuitable Materials 8. Exposure controls Exposure Limit Value Exposure limits/stan Substance Name	s and Coatings: <mark> /personal prote</mark> s dards (Note: Exp Fo	posure lin orm	Polypropyl Aluminum; monomer mits are no Limit Stane TWA 980 n ppm STEL 400 p TWA 200 p	ene; Copper ; Cast Iron; P (EPDM); Mo t additive) dard ng/m3 400	Bronze; Epoxy Pho olystyrene; Ethyle nel; Butyl Rubber; Note N/A N/A N/A	enolic; Zinc; Vinyls ne-propylene-diene Natural Rubber Source OSHA Z1 ACGIH
Unsuitable Materials 8. Exposure controls Exposure Limit Value Exposure limits/stan Substance Name Isopropyl alcohol	s and Coatings: <mark> /personal prote</mark> s dards (Note: Exp Fo	posure lin orm	Polypropyl Aluminum; monomer mits are no Limit Stane TWA 980 n ppm STEL 400 p TWA 200 p	ene; Copper ; Cast Iron; P (EPDM); Mo t additive) dard ng/m3 400	Bronze; Epoxy Pho olystyrene; Ethyle nel; Butyl Rubber; Note N/A N/A N/A	enolic; Zinc; Vinyls ne-propylene-diene Natural Rubber Source OSHA Z1 ACGIH
Unsuitable Materials 8. Exposure controls Exposure Limit Value Exposure limits/stan Substance Name Isopropyl alcohol	s and Coatings: <mark> /personal prote</mark> s dards (Note: Exp Fo	posure lin orm uidance c	Polypropyl Aluminum; monomer mits are no Limit Stane TWA 980 n ppm STEL 400 p TWA 200 p	ene; Copper ; Cast Iron; P (EPDM); Mo t additive) dard ng/m3 400	Bronze; Epoxy Pho olystyrene; Ethyle nel; Butyl Rubber; Note N/A N/A N/A	enolic; Zinc; Vinyls ne-propylene-diene Natural Rubber Source OSHA Z1 ACGIH
Unsuitable Materials 8. Exposure controls Exposure Limit Value Exposure limits/stan Substance Name Isopropyl alcohol NOTE: Limits/standa Biological limits	s and Coatings: ;/personal prote es dards (Note: Exp Fo rds shown for gu	posure lin orm uidance c Samı	Polypropyl Aluminum; monomer mits are no Limit Stand TWA 980 n ppm STEL 400 p TWA 200 p DNIy. Follow	ene; Copper ; Cast Iron; P (EPDM); Mo t additive) dard ng/m3 400	Bronze; Epoxy Pho olystyrene; Ethyle nel; Butyl Rubber; N/A N/A N/A N/A regulations.	enolic; Zinc; Vinyls ne-propylene-diene Natural Rubber Source OSHA Z1 ACGIH ACGIH

Engineering Controls: The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider: Adequate ventilation should be provided so that exposure limits are not exceeded. Use explosion-proof ventilation equipment.

Personal Protection: Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: Half-face filter respirator.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include: If prolonged or repeated contact is likely, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves.

Eye Protection: Chemical goggles are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include: If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Environmental Controls: Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

9. Physical and chemical properties

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the supplier for additional information.

General information

Physical State:	Liquid
Form:	Clear
Color:	Colorless
Odor:	Alcohol
Odor Threshold:	N/D

Important Health, Safety, and Environmental Information		
Relative Density (at 20°C):	0.786 [with respect to water] [calculated]	
Density (at 20°C):	785 kg/m3 (6.55 lbs/gal, 0.79 kg/dm3) [ISO 12185]	
Flammability (Solid, Gas):	N/D	
Flash Point [Method]:	12°C (54°F) [ASTM D-56]	
Flammable Limits (Approx. Volume % in air):	LEL: 2.0 UEL: 13	
Auto ignition Temperature:	>350°C (662°F) [Technical literature)	
Boiling Point / Range:	82°C (180°F) - 83°C (181°F) [ASTM D1078]	
Decomposition Temperature:	N/D	
Vapor Density (Air = 1):	> 1 at 101 kPa [Calculated]	
Vapor Density (Air = 1):	> 1 at 101 kPa [Calculated]	
Vapor Pressure:	4.3 kPa (32.25 mm Hg) at 20°C [Calculated]	
	[In-house method]	
Evaporation Rate (n-butyl acetate = 1):	3.9 [In-house method]	
pH:	N/D	
Log Pow (n-Octanol/Water Partition Coefficient):	0.05 [Technical literature]	

Safety Data Sheet	
Solubility in Water:	Complete
Viscosity:	[N/D at 40°C] 2.66 cSt (2.66 mm2/sec) at 25°C
	[ASTM D7042]
Oxidizing Properties:	See Hazards Identification Section.
OTHER INFORMATION	
Freezing Point:	N/D
Melting Point:	-89°C (-128°F) [Technical literature]
Molecular Weight:	60 G/MOLE [Calculated]
Hygroscopic:	Yes
Coefficient of Thermal Expansion:	0.00117 V/VDEGC [In-house method]

10. Stability and reactivity

Materials and conditions to avoid:

REACTIVITY: See sub-sections below.

STABILITY: Under normal storage conditions peroxides may accumulate and explode when subjected to heat or shock. Distillation or evaporation increases peroxide formation and increases the explosion hazard.

CONDITIONS TO AVOID: Avoid heat, sparks, open flames and other ignition sources. **MATERIALS TO AVOID:** Aldehydes, Amines, Strong oxidizers, Caustics, Chlorinated Compounds, Alkanolamines

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

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11. Toxicology information	
INFORMATION ON TOXICOLOGICAL EFFECTS	
HAZARD CLASS	CONCLUSION/REMARKS
INHALATION	
Acute Toxicity: (Rat) 6 hour(s) LC50>	Minimally Toxic. Based on test data for the material.
25000 mg/m3 (Vapor)	Test(s) equivalent or similar to OECD Guideline 403
Irritation: No end point data for material.	Elevated temperatures or mechanical action may form vapors, mist or fumes which may be irritating to the eyes, nose, throat, or
INGESTION	
Acute Toxicity (Rat): LD50 5840 mg/kg	Minimally Toxic. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 401
SKIN	
Acute Toxicity (Rabbit): LD50 13900 mg/kg	Minimally Toxic. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 402
Skin Corrosion/Irritation: Data available.	May dry the skin leading to discomfort and dermatitis. Based on test data for the material. Test(s) equivalent or similar to OECD
EYE	
Serious Eye Damage/Irritation:	Irritating and will injure eye tissue. Based on test data for the
Data available.	material. Test(s) equivalent or similar to OECD Guideline 405
SENSITIZATION	
Respiratory Sensitization: No end point data	Not expected to be a respiratory sensitizer.

Respiratory Sensitization: No end point data	Not expected to be a respiratory sensitizer.
Skin Sensitization: Data available.	Not expected to be a skin sensitizer. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 406
Aspiration. Data available.	May be harmful if swallowed and enters airways. Based on physico-chemical properties of the material.
Germ Cell Mutagenicity: Data available.	No expected to be a germ cell mutagen. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 471
Carcinogenicity: Data available.	Not expected to cause cancer. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 451
Reproductive Toxicity: Data available.	Not expected to be a reproductive toxicant. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 414
Lactation: No end point data for material.	Not expected to cause harm to breast-fed children.
Specific Target Organ Toxicity (STOT)	
Single Exposure: No end Point data for mater	i May cause drowsiness or dizziness.
Repeated Exposure: Data available.	Not expected to cause organ damage from prolonged or repeated exposure. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 413

OTHER INFORMATION: For the product itself:

Vapor concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anesthetic and may have other central nervous system effects. Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may

The following ingredients are cited on the lists below: None.

1 = NTP CARC	3 = IARC 1	5 = IARC 2B
2 = NTP SUS	4 = IARC 2A	6 = OSHA CARC

12. Ecological Information

The information given is based on data available for the material, the components of the material, and similar materials.

EXOTOXICITY

Material - Not expected to demonstrate chronic toxicity to aquatic organisms.

13. Disposal considerations

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Disposal Recommendations: Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion

Regulatory Disposal Information: RCRA Information: Disposal of unused product may be subject to RCRA regulations (40 CFR 261). Disposal of the used product may also be regulated due to ignitability, corrosively, **Empty Container Warning:** Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations . DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

14. Transport information

14. Transport information	
DOT 49 CFR 172.101	
Not regulated per 49 CFR 173.4 Smal	Il Quantity Exemption
LAND (DOT)	
Proper Shipping Name:	ISOPROPANOL
Hazard Class & Division:	3
ID Number:	1219
Packing Group:	II
ERG Number:	129
Label(s):	3
Transport Document Name:	UN1219, ISOPROPANOL, 3, PG II
AIR (IATA)	
Proper Shipping Name:	ISOPROPYL ALCOHOL
Hazard Class & Division:	3
ID Number:	1219
Packing Group:	II
Label(s) / Mark(s):	3
Transport Document Name:	UN1219, ISOPROPYL ALCOHOL, 3 PG II

15. Regulatory information

OSHA HAZARD COMMUNICATION STANDARD: This material is considered hazardous in accordance with OSHA HazCom 2012, 29 CRF 1910.1200.

16. Other information

Puritan Medical Products Company LLC provides the information in this document in good faith and believes the information to be accurate. The chemical, physical and toxicological properties of this product have not been thoroughly investigated. It is the responsibility of the buyer to research and understand safe methods of handling, storing, and disposal of this product. Puritan Medical makes no warranty with respect to such information and assumes no liability for any loss or injury, which may result from the use of this information. It is the buyers responsibility to comply with local, state and federal regulations concerning use and disposal of this product.