



# Material Safety Data Sheet

## ISOPROPYL ALCOHOL PREP PADS

### Section 1 - Product & Company Identification

<b>Product Name</b>	Stevens Alcohol Prep Pads
<b>Product Use</b>	Antiseptic Cleanser, Effective in destroying Bacteria & removing impurities
<b>Manufacturer</b>	BIO NUCLEAR DIAGNOSTICS INC.
<b>Address</b>	1791 Albion Road, Toronto, Ontario M9W 5S7
<b>Phone#</b>	416-674-1545
<b>Fax#</b>	416-674-7280
<b>Web-site</b>	www.bndinc.com
<b>Preparation Date of MSDS</b>	July 20, 2017

### Section 2 - Composition/Information of Ingredients

Chemical Name	Isopropyl Alcohol	Purified Water
<b>CAS#</b>	67-63-0	7732-18-5
<b>VOL%</b>	70	30
<b>Chemical Family</b>	Alcohol	N/A
<b>Chemical Formula</b>	C3H8O	H2O
<b>Synonyms</b>	Isopropanol, 2-Propanol, propan-2-ol, IPA	Distilled water or Purified H2O DI H2O or D/W, DI Water
<b>OSHA PEL</b>	400 ppm	N/A
<b>ACGIH TLV-TWA</b>	400 ppm	N/A
<b>ACGIH TLV-STEL</b>	500 ppm	N/A

### Section 3 - Hazards Identification

<b>Inhalation</b>	It may cause Low to moderate Toxicity. Inhalation of vapors may be irritating for the respiratory tract.
<b>Ingestion</b>	Toxic by ingestion. And may cause irritation of gastrointestinal tract, nausea, vomiting, diarrhea and headache, however this is not a normal route of entry for Alcohol swabs.
<b>Skin contact</b>	Frequent or prolonged use may cause irritation, redness and dermatitis.
<b>Eye Contact</b>	May cause irritation and lead to damage eye tissues if exposure persists.
<b>Medical conditions aggravated by Exposure</b>	Persons with pre-existing dermal disorders may experience some skin effects.



### Section 4 - First Aid Measures

<b>Inhalation</b>	Remove to the fresh Air. If condition persists, obtain prompt Medical attention.
<b>Ingestion</b>	Not a normal route of exposure. However if ingested, remove swab and rinse mouth with large amount of water. Obtain prompt Medical attention.
<b>Skin Contact</b>	Flush with water. Contact the physician if condition persists.
<b>Eye Contact</b>	Flush with water for several times until irritation subsides. If irritation persists, obtain prompt Medical attention.

### Section 5 - Fire fighting Measures

<b>Flash Point (IPA)</b>	53°F/ 12°C (closed Cup)
<b>Auto ignition Temperature (IPA)</b>	750°F/ 399°C
<b>Flammable Limits (%Vol. In Air) (IPA)</b>	Lower: 2, Upper: 12.7@ 200°F/ 93°C
<b>Hazardous Combustion Products (IPA)</b>	Fumes, Smoke, Carbon oxides
<b>Extinguishing Media (IPA)</b>	Carbon Dioxide, Alcohol foam, Dry Chemical, Water spray
<b>Special Fire Fighting Procedures (IPA)</b>	Fire fighters need to have full protective equipment. Respirators required for the fire fighting personnel. Water spray May be used to minimize vapors and cool containers exposed to heat and flame.
<b>Unusual fire and Explosion Hazards (IPA)</b>	As a flammable liquid, this material may be ignited by heat, spark, flame or static discharge.
<b>NFPA estimated Rating (IPA)</b>	Health: 1      Flammability: 3      Reactivity: 0

### Section 6 - Accidental Release Measures

<b>Spill Control</b>	Due to the product nature, the chance of a spill is negligible. However, in case of spilling, consider the following precautions.
<b>Precautions</b>	Isolate Hazard area. Wear proper protective dress. Attempt to stop leak. Remove all ignition sources. Try to flush spills away from exposures. Ventilate area.
<b>Clean-up Methods</b>	Use non-sparking tools and equipments for cleaning. Collect and place swabs in a Proper waste container.

### Section 7 - Handling & Storage

<b>Handling</b>	Handle with cautions as the product contains flammable liquid. Do not use around sources of heat, sparks. Follow the related regulations.
<b>Storage</b>	Store Product in a cool, dry, well-ventilated Place, away from heat and sources of sparks, ignition & sunlight. Protect from physical damage.



### Section 8 - Exposure Control/ Personal Protection

<b>Personal Protective Equipment</b>	Use of impervious protective cloths, footwear, gloves, and approved safety chemical goggles for eyes is recommended.
<b>Engineering Control</b>	Apply adequate ventilation, Ensure electrical sources are safe

### Section 9 - Physical & Chemical Data

Chemical Name	Isopropyl Alcohol	Purified Water	70%IPA swabs	
<b>Physical state</b>	Clear, volatile, flammable liquid	Clear Liquid	Individually sealed, Alcohol impregnated swabs	
<b>Odor</b>	Rubbing Alcohol	Odorless	No odor when swab is sealed	Rubbing Alcohol odor when pouch opens
<b>Color</b>	Colorless	Colorless	White	
<b>Vapor Pressure</b>	44 mm Hg @ 77°F/25°C	ND	N/A	
<b>Vapor Density</b>	2.1	ND	N/A	
<b>Molecular Weight</b>	60.09	18	N/A	
<b>Boiling Point</b>	180.32°F/82.4°C@760mm Hg	212°F/100°C	N/A	
<b>Melting Point</b>	-127.3°F/-88.5°C	32°F/0°C	N/A	
<b>Specific Gravity</b>	70% IPA: 0.878@20°C 99% IPA: 0.787@20°C	1	N/A	
<b>Evaporation Rate (n-Bu Acetate=1)</b>	2.83	ND	N/A	
<b>Solubility</b>	Miscible with Water, ethyl ether & ethyl Alcohol	N/A	N/A	

### Section 10 - Stability & Reactivity Data

<b>Chemical Stability</b>	Stable
<b>Conditions to Avoid</b>	Sources of ignition, Sparkle, flame, sunlight and heat
<b>Materials to Avoid</b>	Strong oxidizers, acids, Chlorine, Carbon Monoxide
<b>Hazardous decomposition or by-Product</b>	Carbon Monoxide and Carbon Dioxide fumes if heated to decomposition
<b>Hazardous Polymerization</b>	Will not occur

### Section 11 - Toxicology Data

<b>Toxicity, LD/50, Oral, Rat</b>	5045 Mg/Kg
<b>Toxicity, LD/50, Dermal, Rabbit</b>	12800 Mg/Kg
<b>Toxicity, LC/50, 8hrs. Rat</b>	12000 ppm
<b>Listed as Carcinogen</b>	NTP: None IARC: None




## Section 12 - Ecological Information

<b>Persistence and degradability</b>	½ life between 1-10 days
<b>Bio-accumulation</b>	ND
<b>Aquatic Toxicity</b>	Not classified as dangerous to aquatic organisms


## Section 13 - Disposal Considerations

<b>Disposal Preparation</b>	Collect in the proper designated area for recycling or as a waste material
<b>Waste Disposal</b>	To be disposed in accordance with the local, provincial, state and federal regulations.

## Section 14 - Transportation Information

<b>UN Classifications</b>	 <b>Flammable Solid</b>
<b>IATA Regulations</b>	
	<p>UN 3175                      Solids containing flammable liquid</p> <p><b>A46</b>          Providing there is no free liquid visible at the time the substance packaged and the packaging is passed a leakproofness test at the time of packaging, this product is not subject to the regulations of dangerous goods and flammable liquids and may be transported under this entry without first applying the classification criteria of Div. 4.1 . Small inner packages of the Isopropyl Alcohol Prep Pads are consisting of 0.55ml of group III flammable liquid absorbed into the nonwovens .</p>

## Section 15 - Regulatory Information

<b>WHMIS Classification (CANADA)</b>	 <b>B-4</b> <b>Class B: Flammable and Combustible Materials</b>  <b>Division 4: Flammable Solid</b>
<b>SARA (USA)</b>	None of the chemicals in this product listed/reported
<b>TSCRA (USA)</b>	All of the chemicals in this product listed

### Disclaimer:

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements. The buyer assumes all risk of use, storage and handling to comply with local, provincial/state and federal regulations. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages, which may result from the use of or reliance on any information, contained in this form. If user requires independent information on this or any other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (1-800-263-8276) or CSTS in Montreal, Quebec (514-873-3990).