

# Material Safety Data Sheet

**Date:** March 14, 2019

**Product:** **Antiseptic Iodine Spray / Iospray (1%)**

**Product Information:** Iodine Spray

**Product Code:** 10L-ISPRA, 10L-ISRPA4

**D.I.N.** 0049600

**Manufacturer/Supplier:** Dominion Veterinary labs LTD.  
1199 Sanford St  
Winnipeg , Manitoba  
R3E 3A1  
Telephone: (204)-586-3484  
Fax: (204)-943-9612

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**Product use:** As an aid in the treatment and control of bacterial infections of superficial wounds, cuts, abrasions, navel stumps, dockings, and castration wounds. Also for disinfection of skin areas prior to injections or surgical procedures.

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**Chemical Identity:** Blend

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**CAS No. and name:** Blend

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**Formula and M.Wt.:** Blend

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**WHMIS classification:** Flammable liquid, Class B-2  
Toxic Material, Class D-2B

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**TDG classification:** Flammable Liquid, n.o.s. ( Isopropyl Alcohol)  
Class: 3  
UN 1993  
Packing Group: II  
Exemption: Limited Quantity 1.17

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## Hazardous Ingredients

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Chemical Identity	CAS#/NA#/UN#	Conc.(w/w)	LD50
Isopropanol	67-63-0	60-100%	LD50(Oral Rat) 5045 mg/kg
PVP- Polyvinylpyrrolidone	25655-41-8	100%	LD50(Oral Rat)5900 mg/kg

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### Physical Data

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<b>Physical State:</b>	Liquid		
<b>Appearance and Odour:</b>	Dark brown liquid: aromatic odour		
<b>Odour threshold:</b>	40 ppm - Isopropanol	<b>Boiling Pt. (Deg.C) :</b>	N/A
<b>Specific Gravity:.</b>	90	<b>Freezing Pt.(Deg.C):</b>	N/A
<b>Vapour Pressure:</b>	N/A	<b>pH:</b>	3.5
<b>Vapour Density:</b>	N/A	<b>Density(g/mL):.</b>	90/ml
<b>Evapouration Rate:</b>	N/A	<b>Water Solubility:</b>	Soluble

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### Fire or Explosion Hazards

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**Conditions of flammability:** Requires a source of ignition, the presence of air, and a temperature greater than the flash point.

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**Means of extinction:**

**Large fires-**Use water spray, foam, dry chemical, or carbon monoxide.

**Small fires-**(Same as above)

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**Flashpoint and method of determination:**(TCC, Deg. C)-19 C - Pensky-Martens

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**Upper flammable limit:** N/A

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**Lower flammable limit:** N/A

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**Auto-Ignition Temperature:** N/A

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**Hazardous combustion products:** Carbon oxides and products of incomplete combustion.

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**Explosion Data- Sensitivity to mechanical impact:** Not sensitive

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**Explosion Data-Sensitivity to static discharge:** Potential for fire and/or explosion. Grounding and use of explosion-proof equipment is required.

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## Reactivity Data

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**Chemical Stability:** Stable under normal conditions. Hazardous polymerization will not occur.

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**Incompatible Substances:** Avoid strong oxidizing and reducing agents.

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**Conditions of reactivity:** Avoid contamination with reactive substances. Avoid excessive heat. Avoid heating above flashpoint.

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**Hazardous decomposition products:** Acrid smoke and fumes emitted when heated to decomposition. Oxides of carbon.

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## Toxicological properties

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### Effects of Accute Exposure:

#### Route of Entry:

<b>Skin contact:</b>	Contact may cause irritation, redness, swelling, or dermatitis.
<b>Eye absorption:</b>	Will cause painful burning or stinging of eyes and lids, watering of eyes, and inflammation of conjunctiva.
<b>Inhalation:</b>	Vapours could cause headache, nausea, dizziness, and respiratory irritation if inhaled.
<b>Ingestion:</b>	May cause abdominal discomfort, nausea, vomiting, and diarrhea. Doses of 150 mL and above can be fatal.

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**Effects of chronic exposure:** Skin irritation or dermatitis may occur upon frequent or prolonged contact.

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**Exposure limits:** TLV= 400 ppm-Isopropanol (ACGIH)

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### Irritancy of product:

**Skin:**Moderate irritant

**Eye:**Severe irritant

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**Sensitization to material:** No evidence to indicate sensitizer.

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**Carcinogenicity:** Product has not been listed as a carcinogen or potential carcinogen by either the ACGIH or the IARC.

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**Reproductive toxicity:** N/A

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**Teratogenicity:** N/A

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**Mutagenicity:** N/A

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**Toxicologically synergistic products:** N/A

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### Preventive Measures

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**Personal protective equipment:** Chemical goggles, impervious gloves and protective clothing as required to prevent contact. Use NIOSH-approved air-purifying respirator with chemical cartridge for protection against organic vapours.

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**Engineering controls:** General ventilation with a good source of make-up air recommended for all indoor situations. Local ventilation recommended at source of contaminant generation. Ventilation should be adequate enough to maintain air concentrations below the designated exposure limit.

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**Handling procedures and equipment:** Avoid prolonged or frequent contact when handling material. Avoid breathing mist or vapour. Use a NIOSH-approved chemical-cartridge respirator, if adequate ventilation cannot be provided. Avoid skin or eye contact. Protective measures during repair/maintenance of equipment: Wash equipment thoroughly with steam or warm water until clean. Check for flammables with an explosion meter and also check the oxygen level with an oxygen meter. In all cases, follow good industrial safety practices before entering equipment.

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**Storage requirements:** Keep container closed when not in use. Store in cool and dry location away from oxidizing and reducing agents.

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**Special shipping information:** Handle according to the requirements set out in the Transport of Dangerous Goods regulations for: For bulk shipments only: ISOPROPANOL SOLUTION, UN#1219, CLASS 3, P.G. II

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**Procedures for handling leaks or spills:** Eliminate sources of ignition. Collect into waste container. Absorb remaining product with earth or sand and dispose of with solid waste. Wash spill site after material pick-up. Do not breathe vapours. Use NIOSH-approved respirator if exposed to vapours. Avoid drainage of spilled material to sewers or waterways.

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**Waste disposal:** Dispose of waste according to federal, provincial, and local regulations. May be used directly as a fuel stock with appropriate emissions control equipment. Otherwise, incinerate directly with or without other flammable solvent additives.

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### **First Aid Measures**

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**Skin contact:** Immediately flush skin with plenty of water for at least 15 minutes while removing clothing and shoes. Call a physician. Wash clothes before re-use.

**Eye contact:** Immediately flush eyes with water for 15 minutes and call a physician. Contact lenses should not be worn when working with this material.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

**Ingestion:** Induce vomiting by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician.

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**Prepared by: David Earn**

**Date:** March 14, 2019

Checked By: \_\_\_\_\_D.Earn\_\_\_\_\_

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