

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product number** RA008C  
**Product name** PRO LINK Disinfectant Spray For Health Care Use  
**Effective date** 04-Mar-2010  
**Company information** Pro-Link, Inc.  
Ottawa, Canada K1Z 1E9 Canada  
**Company phone** General Assistance 1-800-74-LINKS  
**Emergency telephone US** 1-866-836-8855  
**Emergency telephone outside US** 703-527-3887  
**Version #** 07  
**Supersedes date** 04-Aug-2009  
**Expiry Date** 31-Mar-2013

## 2. Hazards Identification

**Emergency overview** Flammable. Aerosol. Contents under pressure. Will be easily ignited by heat, spark or flames. Prolonged exposure may cause chronic effects.

**Potential health effects**

**Routes of exposure** Inhalation. Ingestion. Skin contact. Eye contact.

**Eyes** Moderately irritating to the eyes.

**Skin** Harmful if absorbed through the skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

**Inhalation** Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Prolonged inhalation may be harmful.

**Ingestion** Exposure by ingestion of an aerosol is unlikely. May cause stomach distress, nausea or vomiting.

**Target organs** Blood. Central nervous system. Gastrointestinal tract. Liver. Respiratory system.

**Chronic effects** Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
Ethyl Alcohol	64-17-5	30 - 60
n-Butane	106-97-8	10 - 30
Propane	74-98-6	5 - 10
Methanol	67-56-1	1 - 5
Non-hazardous and other components below reportable levels		10 - 30

## 4. First Aid Measures

**First aid procedures**

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Remove contact lenses, if present and easy to do. Call a physician or Poison Control Center immediately.

**Skin contact** Immediately flush skin with plenty of water. Remove and isolate contaminated clothing and shoes. Call a physician or Poison Control Center immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.

**Inhalation** Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or Poison Control Center immediately.

**Ingestion**

Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention immediately. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

<b>5. Fire Fighting Measures</b>
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<b>Flammable properties</b>	Flammable by WHMIS criteria. Vapors may travel to a source of ignition and flash back. Ruptured cylinders may rocket.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Foam. Dry chemical. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Protection of firefighters</b>	
<b>Protective equipment and precautions for firefighters</b>	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Containers should be cooled with water to prevent vapor pressure build up. Do not direct water at source of leak or safety devices; icing may occur. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Cool containers with flooding quantities of water until well after fire is out. Some of these materials, if spilled, may evaporate leaving a flammable residue.
<b>Unusual fire &amp; explosion hazards</b>	Flammable by WHMIS criteria. Vapors may travel to a source of ignition and flash back. Ruptured cylinders may rocket.

<b>6. Accidental Release Measures</b>
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<b>Methods for containment</b>	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. If possible, turn leaking containers so that gas escapes rather than liquid. Move the cylinder to a safe and open area if the leak is irreparable.
<b>Methods for cleaning up</b>	Clean up in accordance with all applicable regulations. Ventilate the contaminated area.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

<b>7. Handling and Storage</b>
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<b>Handling</b>	Pressurized container: Do not pierce or burn, even after use. Do not handle or store near an open flame, heat or other sources of ignition. When using do not smoke. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not use if spray button is missing or defective. Use only with adequate ventilation. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not get this material on clothing. Wash hands after handling and before eating.
<b>Storage</b>	Level 2 Aerosol. Contents under pressure. Do not puncture, incinerate or crush. Keep away from heat and sources of ignition. Keep at temperature not exceeding 49°C. Avoid exposure to long periods of sunlight. Keep in an area equipped with sprinklers. Keep out of the reach of children. Level 2 Aerosol.

<b>8. Exposure Controls / Personal Protection</b>
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**Exposure limits****ACGIH**

Components	CAS #	TWA	STEL	Ceiling
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm	Not established
n-Butane	106-97-8	1000 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
Methanol	67-56-1	200 ppm	250 ppm	Not established

**Personal protective equipment****Eye / face protection**

Wear chemical goggles.

**Skin protection**

Wear appropriate chemical resistant gloves. Wear chemical protective equipment that is specifically recommended by the manufacturer.

**Respiratory protection**

Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

**9. Physical & Chemical Properties**

<b>Appearance</b>	Compressed liquefied gas.
<b>Boiling point</b>	136.4 °F (57.8 °C) estimated
<b>Color</b>	colorless
<b>Evaporation rate</b>	Not available
<b>Flammability (HOC)</b>	25 kJ/g
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Flammability limits in air, upper, % by volume</b>	Not available
<b>Flash back</b>	No
<b>Flash point</b>	-156 °F (-104.4 °C) estimated
<b>Form</b>	Compressed gas. Aerosol.
<b>Freezing point</b>	Not available
<b>Odor</b>	fruity alcoholic
<b>Odor threshold</b>	Not available
<b>pH</b>	9.04 - 10.04
<b>Physical state</b>	Liquid.
<b>Pressure</b>	52 - 62 psig @ 70F
<b>Specific gravity</b>	0.7515

**10. Chemical Stability & Reactivity Information**

<b>Chemical stability</b>	Stable at normal conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks. Avoid high temperatures.
<b>Incompatible materials</b>	Isocyanates. Strong oxidizing agents.
<b>Hazardous decomposition products</b>	May include oxides of nitrogen.

**11. Toxicological Information**

<b>Acute effects</b>	Acute LC50: 81 mg/l/4h estimated, Rat, Inhalation	
<b>Component analysis - LD50</b>		
<b>Toxicology Data - Selected LD50s and LC50s</b>		
Ethyl Alcohol	64-17-5	Oral LD50 Rat 7060 mg/kg
Methanol	67-56-1	Inhalation LC50 Rat 83.2 mg/L 4 h; Inhalation LC50 Rat 64000 ppm 4 h; Oral LD50 Rat 5628 mg/kg; Dermal LD50 Rabbit 15800 mg/kg
n-Butane	106-97-8	Inhalation LC50 Rat 658 mg/L 4 h
Propane	74-98-6	Inhalation LC50 Rat 658 mg/L 4 h
<b>Sensitization</b>	Not expected to be hazardous by WHMIS criteria.	
<b>Carcinogenicity</b>	Not expected to be hazardous by WHMIS criteria.	
<b>ACGIH - Threshold Limit Values - Carcinogens</b>		
Ethyl Alcohol	64-17-5	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
<b>IARC - Group 1 (Carcinogenic to Humans)</b>		
Ethyl Alcohol	64-17-5	Monograph 96 [in preparation] (in alcoholic beverages)
<b>Mutagenicity</b>	Not expected to be hazardous by WHMIS criteria.	
<b>Reproductive effects</b>	Not expected to be hazardous by WHMIS criteria.	
<b>Teratogenicity</b>	Hazardous by WHMIS criteria. Risk of birth defects and reduced fertility cannot be excluded.	
<b>Chronic toxicity</b>	Not expected to be hazardous by WHMIS criteria.	

**12. Ecological Information**

<b>Ecotoxicity</b>	LC50 1824 mg/L estimated, Fish, 96.00 Hours, EC50 932 mg/L estimated, Daphnia, 48.00 Hours, Components of this product have been identified as having potential environmental concerns.
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### 13. Disposal Considerations

**Disposal instructions** Consult authorities before disposal. Contents under pressure. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

### 14. Transport Information

#### Canadian Transportation of Dangerous Goods (TDG) Requirements

**Proper shipping name** AEROSOLS, flammable  
**Hazard class** 2.1  
**UN number** UN1950  
**Marine pollutant** •  
**Special provisions** 80 SOR/2002-306  
**Packaging exceptions** If <1L: Consumer Commodity



### 15. Regulatory Information

**Canadian regulations** This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

#### Canada - WHMIS - Ingredient Disclosure List

Ethyl Alcohol	64-17-5	0.1 %
Methanol	67-56-1	1 %
n-Butane	106-97-8	1 %

**WHMIS status** Controlled

**WHMIS classification** A - Compressed Gas  
B5 - Flammable/Combustible  
D2A - Other Toxic Effects-VERY TOXIC  
D2B - Other Toxic Effects-TOXIC

#### WHMIS labeling



#### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

### 16. Other Information

**HMIS® ratings** Health: 1\*  
Flammability: 3  
Physical hazard: 0  
Personal protection: X

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Prepared by**

Regulatory Compliance