MATERIAL SAFETY DATA SHEET

	1. Product and Company Identification
Product number	RA009C
Product name	Germicidal Cleaner
Effective date	01-Jul-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 #	08
Supersedes date	04-Aug-2009
Expiry Date	30-Jun-2013
	2. Hazards Identification
Emergency overview	CAUTION
	Aerosol. Will be easily ignited by heat, spark or flames.
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.
Inhalation	Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Harmful if inhaled.
Ingestion	Exposure by ingestion of an aerosol is unlikely. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Target organs	2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged and may cause blood damage. These effects have not been
	observed in humans. Kidney. Blood. Central nervous system. Liver. Respiratory system.

Components	CAS #	Percent
2-Butoxyethanol	111-76-2	3 - 7
n-Butane	106-97-8	1 - 5
Tetrasodium Salt of EDTA	64-02-8	0.5 - 1.5
Non-hazardous and other components below reportable levels		60 - 100

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. Get medical attention immediately. Skin contact Immediately flush skin with plenty of water. Remove and isolate contaminated clothing and shoes. Get medical attention 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.

Never give anything by mouth to a victim who is unconscious or is having convulsions. 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.

		5. Fire Fighting Me	asures		
Flammable properties	Ruptured	l cylinders may rocket.			
Extinguishing media					
Suitable extinguishing medi	a Large Fir	es: Water spray, fog or	regular foam.		
	Small Fir	es: Dry chemical, CO2,	water spray or regular foar	۱.	
Unsuitable extinguishing me	edia Do not u	se a solid water stream	as it may scatter and sprea	d fire.	
Protection of firefighters					
Protective equipment and precautions for firefighters	pressure should be unmanne	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. 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.			
Unusual fire & explosion hazard	s Ruptured	l cylinders may rocket.			
	6. A	ccidental Release	Measures		
Methods for containment	Stop leal leak is irr	k if you can do so withou reparable. Many gases a	smoking, flares, sparks, or It risk. Move the cylinder to are heavier than air and will sewers, basements, tanks).	a safe and open area if the spread along ground and	
Methods for cleaning up	Clean up	in accordance with all a	applicable regulations.		
		ills: Wipe up with absor horoughly.	pent material (e.g. cloth, flee	ece). Clean contaminated	
		7. Handling and S	torage		
Handling Storage	an open weld, sol ignition. I ventilatio contact v clothing. Level 1 A Contents containe sunlight.	flame, heat or other sou der, drill, grind, or expose Do not use if spray butto n. Do not get this mater vith skin. Do not breather Aerosol. a under pressure. Do not rs can increase under th	rces of ignition. When using e containers to heat, flame in is missing or defective. U al in contact with eyes. Do gas/fumes/vapor/spray. Do puncture, incinerate or cru e influence of heat. Avoid e Keep in an area equipped	not get this material in o not get this material on sh. The pressure in sealed	
	8. Exposi	ure Controls / Pers	onal Protection		
Exposure limits					
ACGIH					
· · · · · · ·	CAS #	TWA	STEL	Ceiling	
	111-76-2	20 ppm	Not established	Not established	
n-Butane	106-97-8	1000 ppm	Not established	Not established	
Personal protective equipment					
Eye / face protection	Wear che	emical goggles and face	shield.		
Skin protection	Wear ap	propriate chemical resis	tant gloves. Wear chemical	protective equipment that is	
Respiratory protection	-	Ily recommended by the sitive pressure self-cont	manufacturer. ained breathing apparatus (SCBA).	
	0 04	weight & Chamical	Proportios		
	9. PI	ysical & Chemical	rioperties		

Compressed liquefied gas.

Appearance

	212 °F (100 °C) actimated
Boiling point	212 °F (100 °C) estimated
Color	Pale yellow
Evaporation rate	Not available
Flammability (HOC)	3.4133 kJ/g estimated
Flammability limits in air, lower, % by volume	
Flammability limits in air, upper, % by volume	Not available
Flash back	No
Flash point	-156 °F (-104.4 °C)
Form	Aerosol.
Freezing point	Not available
Odor	fruity
Odor threshold	Not available
рН	11.76 - 12.76
Physical state	Liquid.
Pressure	46 - 56 psig @70F
Specific gravity	0.9789
1	0. Chemical Stability & Reactivity Information
Chemical stability	Risk of ignition. Stable at normal conditions.
Conditions to avoid	Avoid high temperatures.
Incompatible materials	None known.
Hazardous decomposition produc	ts May include oxides of oxides of carbon.
	11. Toxicological Information
Acute effects	Acute LD50: 4536 mg/kg estimated, Rat, Dermal
	Acute LC50: 44 mg/l/4h estimated, Rat, Inhalation
Component analysis - LD50	
Toxicology Data - Selected LD50s	and LC50s
2	111-76-2Inhalation LC50 Rat 2.21 mg/L 4 h; Inhalation LC50 Rat 450 ppm 4 h; Oral LD50 Rat 470 mg/kg; Dermal LD50 Rat 2270 mg/kg; Dermal LD50 Rabbit 220 mg/kg106-97-8Inhalation LC50 Rat 658 mg/L 4 h
	106-97-8 Inhalation LC50 Rat 658 mg/L 4 h 64-02-8 Oral LD50 Rat 10 g/kg
Sensitization	Not expected to be hazardous by WHMIS criteria.
Carcinogenicity	Not expected to be hazardous by WHMIS criteria.
ACGIH - Threshold Limit Values -	Carcinogens
2-Butoxyethanol	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
Mutagenicity	Not expected to be hazardous by WHMIS criteria.
Teratogenicity	Not expected to be hazardous by WHMIS criteria.
Chronic toxicity	This product may be harmful if it is absorbed through the skin.
	2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.
	12. Ecological Information
Ecotoxicity	LC50 1165 mg/L estimated, Fish, 96.00 Hours, EC50 17731 mg/L estimated, Daphnia, 48.00 Hours, IC50 86.05 mg/L estimated, Algae, 72.00 Hours, Components of this product have been identified as having potential environmental concerns.
	13. Disposal Considerations
Disposal instructions	Contents under pressure. 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.
Product name: Germicidal Cleaner	MSDS CANADA

14. Transport Information

Canadian Transportation of Dangerous Goods (TDG) Requirements

Proper shipping name Hazard class UN number Marine pollutant Special provisions Packaging exceptions AEROSOLS, flammable 2.1 UN1950 • 80 SOR/2002-306 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 - Ingredie	ent Disclosure List		
2-Butoxyethanol	111-76-2	1 %	
n-Butane	106-97-8	1 %	
WHMIS status	Controlle	d	
WHMIS classification	A - Compressed Gas D2B - Other Toxic Effects-TOXIC		

WHMIS labeling



entory status Country(s) or region	Inventory name On inventory (yes	:/no)*
., .		
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
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)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
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 compon	ents of this product comply with the inventory requirements administered by the governing country(s)	

16. Other Information

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

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Regulatory Compliance