SAFETY DATA SHEET

1. Identification

Product identifier Pro-Link Germicidal Cleaner

Other means of identification

Product code RA009C
Recommended use PESTICIDE
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Pro-Link Canada

Address Box 67082, 421 Richmond Road

Ottawa, Ontario K2A 4E4

Canada

Telephone General Assistance 613-722-0798

Website www.prolinkcanada.com

E-mail Not available.

Emergency phone number Emergency - US 1-866-836-8855

Emergency - Outside US 1-952-852-4646

Supplier Not available.

2. Hazard(s) identification

Physical hazardsFlammable aerosolsCategory 1Health hazardsSerious eye damage/eye irritationCategory 2

Label elements



Signal word Danger

Hazard statement Extremely flammable aerosol. Causes serious eye irritation.

Precautionary statement

Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.

Wash thoroughly after handling. Wear eye protection/face protection.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Other hazards None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
2-Butoxyethanol		111-76-2	4.85
Butane		106-97-8	2.107
EDTA Tetrasodium Salt		64-02-8	1.203
Isopropyl Alcohol		67-63-0	1.042
Propane		74-98-6	0.892

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Chemical name	Common name and synonyms	CAS number	%
Alkyl(c12-14)dimethyl(ethylbenzyl)a mmonium Chloride		85409-23-0	0.119
N-Alkyl-N,N-Dimethyl-N-Benzylam monium Chloride		68391-01-5	0.119
Other components below reportable	levels		89.667

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Move to fresh air. Call a physician if symptoms develop or persist. Inhalation

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Immediately flush eves with plenty of water for at least 15 minutes. Remove contact lenses, if Eve contact

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred Most important vision.

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Not available.

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

Fire fighting equipment/instructions Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Use standard firefighting procedures and consider the hazards of other involved materials. Move Specific methods

containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

General fire hazards Extremely flammable aerosol.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Avoid discharge into drains, water courses or onto the ground. **Environmental precautions**

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7. Handling and storage

Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not get in eyes, on skin, or on clothing. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH	Threshold	Limit Values
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Components	Туре	Value
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm
Butane (CAS 106-97-8)	STEL	1000 ppm
Isopropyl Alcohol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
Canada. Alberta OELs (Occupat	ional Health & Safety Code, Scl	hedule 1, Table 2)
Components	Туре	Value
2-Butoxyethanol (CAS 111-76-2)	TWA	97 mg/m3
		20 ppm
Butane (CAS 106-97-8)	TWA	1000 ppm
Isopropyl Alcohol (CAS 67-63-0)	STEL	984 mg/m3
,		400 ppm
	TWA	492 mg/m3
		200 ppm
Propane (CAS 74-98-6)	TWA	1000 ppm
Canada. British Columbia OELs. Safety Regulation 296/97, as am		s for Chemical Substances, Occupational Health and
Components	, Type	Value
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm
Butane (CAS 106-97-8)	STEL	750 ppm
,	TWA	600 ppm
Isopropyl Alcohol (CAS 67-63-0)	STEL	400 ppm
,	TWA	200 ppm
Canada. Manitoba OELs (Reg. 2 ⁻	17/2006, The Workplace Safety	And Health Act)
Components	Туре	Value
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm
Butane (CAS 106-97-8)	STEL	1000 ppm
Isopropyl Alcohol (CAS	STEL	400 ppm

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67-63-0)

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200 ppm

TWA

Components	Туре	Value	
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm	
Butane (CAS 106-97-8)	TWA	800 ppm	
Isopropyl Alcohol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
Canada, Quebec OELs, (Ministry	of Labor - Regulation Respec	ing the Quality of the Work Environment)	

Components	Туре	Value	
2-Butoxyethanol (CAS 111-76-2)	TWA	97 mg/m3	
		20 ppm	
Butane (CAS 106-97-8)	TWA	1900 mg/m3	
		800 ppm	
Isopropyl Alcohol (CAS 67-63-0)	STEL	1230 mg/m3	
•		500 ppm	
	TWA	983 mg/m3	
		400 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*
Isopropyl Alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*

^{* -} For sampling details, please see the source document.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove Hand protection

supplier.

Other Wear suitable protective clothing.

Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

When using do not smoke. 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.

9. Physical and chemical properties

Appearance

Gas. Physical state **Form** Aerosol. Not available. Color Not available. Odor **Odor threshold** Not available.

11.8 - 12.8 estimated

Product name: Pro-Link Germicidal Cleaner Product #: RA009C Version #: 01 Issue date: 03-18-2017 Melting point/freezing point Not available.

Initial boiling point and boiling 212

range

212 °F (100 °C) estimated

Flash point -156.0 °F (-104.4 °C) Propellant estimated

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 55 - 75 psig @70F estimated

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 446 °F (230 °C) estimated

Decomposition temperature Not available. **Viscosity** Not available.

Other information

Explosive properties

Flame extension

Oxidizing properties

Specific gravity

Not explosive.

0 in estimated

Not oxidizing.

0.979 estimated

10. Stability and reactivity

Reactivity Reacts violently with strong acids. This product may react with oxidizing agents.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials. Do not mix with

other chemicals.

Incompatible materials Acids. Oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected.

Skin contact 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.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

Information on toxicological effects

Acute toxicity

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Test Results Components **Species** 2-Butoxyethanol (CAS 111-76-2) **Acute** Dermal LD50 Guinea pig 7.3 ml/kg, 4 Days 0.23 ml/kg, 24 Hours Rabbit 435 mg/kg, 24 Hours 0.68 ml/kg, 24 Hours 0.63 ml/kg Rat > 2000 mg/kg, 24 Hours Inhalation LC50 Rabbit 400 ppm, 7 Hours Rat 450 ppm, 4 Hours Oral LD100 Rabbit 695 mg/kg > 695 mg/kg LD50 Dog Guinea pig 1414 mg/kg Mouse 1519 mg/kg Rat 1746 mg/kg Butane (CAS 106-97-8) **Acute** Inhalation LC50 1237 mg/l, 120 Minutes Mouse 52 %, 120 Minutes Rat 1355 mg/l EDTA Tetrasodium Salt (CAS 64-02-8) **Acute** Oral LD50 Rat 1658 mg/kg Isopropyl Alcohol (CAS 67-63-0) **Acute Dermal** Rabbit LD50 16.4 ml/kg, 24 Hours Inhalation LC50 Rat > 10000 ppm, 6 Hours Oral LD50 Rat 5.84 g/kg Propane (CAS 74-98-6) **Acute** Inhalation 1237 mg/l, 120 Minutes LC50 Mouse 52 %, 120 Minutes Rat 1355 mg/l 658 mg/l/4h

Prolonged skin contact may cause temporary irritation. Skin corrosion/irritation

Serious eye damage/eye

irritation

Causes serious eye irritation.

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^{*} Estimates for product may be based on additional component data not shown.

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

2-Butoxyethanol (CAS 111-76-2) Irritant

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

ACGIH Carcinogens

2-Butoxyethanol (CAS 111-76-2)

A3 Confirmed animal carcinogen with unknown relevance to

humans.

Isopropyl Alcohol (CAS 67-63-0)

A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

2-BUTOXYETHANOL (EGBE) (CAS 111-76-2) Confirmed animal carcinogen with unknown relevance to humans.

2-PROPANOL (CAS 67-63-0) Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

2-Butoxyethanol (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not likely, due to the form of the product.

Chronic effects May be harmful if absorbed through 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

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
2-Butoxyethanol (CAS	111-76-2)		
Aquatic			
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours
EDTA Tetrasodium Sal	t (CAS 64-02-8)		
Aquatic			
Algae	IC50	Algae	1.01 mg/L, 72 Hours
Fish	LC50	Bluegill (Lepomis macrochirus)	472 - 500 mg/l, 96 hours
Isopropyl Alcohol (CAS	667-63-0)		
Aquatic			
Algae	IC50	Algae	1000.0001 mg/L, 72 Hours
Crustacea	EC50	Daphnia	13299 mg/L, 48 Hours
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

 2-Butoxyethanol
 0.83

 Butane
 2.89

 Isopropyl Alcohol
 0.05

 Propane
 2.36

Mobility in soil No data available.

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Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents **Disposal instructions**

under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance

with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

14. Transport information

TDG

UN1950 **UN** number

AEROSOLS, flammable **UN** proper shipping name

Transport hazard class(es)

Class 2.1 Subsidiary risk

Not applicable. Packing group

Environmental hazards D

Special precautions for user Not available.

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity.

IATA

UN1950 **UN** number

UN proper shipping name Aerosols, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk 2.1 Label(s)

Packing group Not applicable.

Environmental hazards No. **ERG Code** 10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Not applicable.

Cargo aircraft only

Allowed with restrictions.

IMDG

UN number UN1950 **UN proper shipping name AEROSOLS**

Transport hazard class(es)

Class 2.1 Subsidiary risk 2.1 Label(s)

Packing group Not applicable.

Environmental hazards

Marine pollutant No. F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

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IATA; IMDG; TDG



15. Regulatory information

Canadian regulations

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

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

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

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

Toxic Substances Control Act (TSCA) Inventory

country(s).

16. Other Information

Issue date 03-18-2017

Version # 01

United States & Puerto Rico

Product name: Pro-Link Germicidal Cleaner sds canada

Yes

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. **Revision information** Product and Company Identification: Alternate Trade Names

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