

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number YA010C
Product name Citrus Cleaner & Deodorizer
Effective date 15-Dec-2009
Company information Pro-Link Inc
Ottawa Ontario, K1Z 1E9 Canada
Company phone General Assistance 800-74-LINKS
Emergency telephone US 800-424-9300
Emergency telephone outside US 703-527-3887
Version # 15
Supersedes date 04-Aug-2009

2. Hazards Identification

Emergency overview CONTENTS UNDER PRESSURE. Aerosol.
Potential health effects
Routes of exposure Inhalation. Ingestion. Eye contact.
Eyes Health injuries are not known or expected under normal use. May cause eye irritation with susceptible persons.
Skin Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).
Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal.
Ingestion Exposure by ingestion of an aerosol is unlikely. Components of the product may be absorbed into the body by ingestion.
Target organs Central nervous system. Skin.

3. Composition / Information on Ingredients

Components	CAS #	Percent
d-Limonene	5989-27-5	3 - 7
Propane	74-98-6	1 - 5
n-Butane	106-97-8	1 - 5
Non-hazardous and other components below reportable levels		60 - 100

4. First Aid Measures

First aid procedures
Eye contact Rinse with water.
Skin contact For minor skin contact, avoid spreading material on unaffected skin.
Inhalation If symptoms develop move victim 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 If material is ingested, immediately contact a poison control center. Do not induce vomiting without advice from poison control center.

5. Fire Fighting Measures

Flammable properties Vapors may travel to a source of ignition and flash back. Ruptured cylinders may rocket.
Extinguishing media
Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Protection of firefighters**Protective equipment and precautions for firefighters**

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. 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.

Unusual fire & explosion hazards

Vapors may travel to a source of ignition and flash back. Ruptured cylinders may rocket.

6. Accidental Release Measures

Methods for containment

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. Stop the flow of material, if this is without risk. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).

Methods for cleaning up

Clean up in accordance with all applicable regulations. Ventilate the contaminated area. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

7. Handling and Storage

Handling

Pressurized container: Do not pierce or burn, even after use. 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. Do not get this material on clothing.

Storage

Level 1 Aerosol.
Contents under pressure. Do not puncture, incinerate or crush. Keep away from heat and sources of ignition. Avoid exposure to long periods of sunlight. Keep at temperature not exceeding 49 °C. Keep in an area equipped with sprinklers. Keep out of the reach of children. Do not store, incinerate, or heat this material above 120 degrees Fahrenheit.

8. Exposure Controls / Personal Protection

Exposure limits**ACGIH****Components****CAS #****TWA****STEL****Ceiling**

Propane

74-98-6

1000 ppm

Not established

Not established

n-Butane

106-97-8

1000 ppm

Not established

Not established

Personal protective equipment**Skin protection**

Wear appropriate chemical resistant clothing.

Respiratory protection

Wear positive pressure self-contained breathing apparatus (SCBA). If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

9. Physical & Chemical Properties
--

Appearance

Compressed liquefied gas.

Boiling point

204.8 °F (96.1 °C) estimated

Color

White.

Evaporation rate

Not available

Flammability (HOC)

4.6876 kJ/g estimated

Flammability limits in air, lower, % by volume

Not available

Flammability limits in air, upper, % by volume

Not available

Flash back

No

Flash point

-156 °F (-104.4 °C) Propellant

Form

Compressed gas. Aerosol.

Freezing point

Not available

Odor

fruity

Odor threshold	Not available
pH	9 - 10
Physical state	Liquid.
Pressure	70 - 90 psig @ 70F
Specific gravity	0.9545 estimated

10. Chemical Stability & Reactivity Information

Conditions to avoid	Aerosol containers are unstable at temperatures above 49°C.
Incompatible materials	None known.

11. Toxicological Information

Acute effects	Acute LD50: 43352 mg/kg estimated, Rat, Dermal	
Component analysis - LD50		
Toxicology Data - Selected LD50s and LC50s		
d-Limonene	5989-27-5	Oral LD50 Rat 4400 mg/kg; Dermal LD50 Rabbit >2000 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
Sensitization	May cause sensitization by skin contact.	
Carcinogenicity	Not expected to be hazardous by WHMIS criteria.	
Mutagenicity	Not expected to be hazardous by WHMIS criteria.	
Teratogenicity	Not expected to be hazardous by WHMIS criteria.	
Chronic toxicity	Not expected to be hazardous by WHMIS criteria.	

12. Ecological Information

Ecotoxicity	LC50 12389 mg/L, Fish, 96.00 Hours, EC50 49786 mg/L, Daphnia, 48.00 Hours, IC50 11489 mg/L, Algae, 72.00 Hours, Components of this product have been identified as having potential environmental concerns.
-------------	--

13. Disposal Considerations

Disposal instructions	Contents under pressure. Dispose of this material and its container at hazardous or special waste collection point. 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

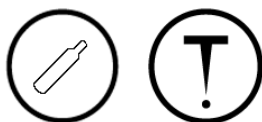
Canadian Transportation of Dangerous Goods (TDG) Requirements

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		
d-Limonene	5989-27-5	1 %
n-Butane	106-97-8	1 %
WHMIS status	Controlled	

WHMIS classificationA - Compressed Gas
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)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
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

Further information

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratingsHealth: 1
Flammability: 2
Physical hazard: 0
Personal protection:**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. 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.

MSDS sections updated

This document has undergone significant changes and should be reviewed in its entirety.

Prepared by

Regulatory Compliance