

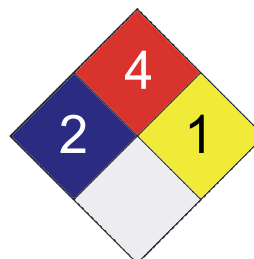
MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name 182 – YA012C Pro-Link Canadian Pine Dry Air & Fabric Deodorizer
CAS # Mixture
Product Use Air freshener
Manufacturer Pro-Link, Inc.
Ottawa, Ontario K1Z 1E9 Canada
Phone: 1-800-74-LINKS
Emergency Phone: 1-866-836-8855

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 2
Flammability	4
Physical Hazard	1
Personal Protection	B



2. Hazards Identification

Emergency Overview DANGER
Extremely flammable. Contents under pressure. Containers may explode when heated.
Contains a potential mutagen.
Eye and skin irritant.

Potential short term health effects

Routes of exposure Eye, Skin contact, Skin absorption, Inhalation, Ingestion.

Eyes May cause irritation.

Skin May cause irritation. May be absorbed through the skin.

Inhalation Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

Ingestion Not a normal route of exposure. May cause stomach distress, nausea or vomiting.

Target organs Blood. Eyes. Liver. Respiratory system. Skin.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, oedema, drying, defatting and cracking of the skin.
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Fragrance	Mixture	0.5 - 1.5
Distillates (petroleum), light hydrotreated	64742-47-8	15 - 40
Butane	106-97-8	15 - 40
Ethanol	64-17-5	3 - 7
Propane	74-98-6	30 - 60

4. First Aid Measures

First aid procedures

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

Inhalation	If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.
Ingestion	Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.
Notes to physician	Symptoms may be delayed.
General advice	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting Measures

Flammable properties	Flammable aerosol by flame projection test. Containers may explode when heated.
Extinguishing media	
Suitable extinguishing media	Dry chemical. Foam. Carbon dioxide.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Protection of firefighters	
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. Cool containers with flooding quantities of water until well after fire is out.
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Remove sources of ignition. Although the chance of a significant spill or leak is unlikely in aerosol containers, in the event of such an occurrence, absorb spilled material with a non-flammable absorbent such as sand or vermiculite. Never return spills in original containers for re-use.

7. Handling and Storage

Handling	Use good industrial hygiene practices in handling this material.
Storage	Keep out of reach of children. Do not store at temperatures above 49°C (120.2°F). Keep away from heat, open flames or other sources of ignition.

8. Exposure Controls / Personal Protection

Exposure limits Ingredient(s)	Exposure limits
Butane	ACGIH-TLV TWA: 1000 ppm
Distillates (petroleum), light hydrotreated	ACGIH-TLV Not established
Ethanol	ACGIH-TLV TWA: 1000 ppm
Fragrance	ACGIH-TLV Not established
Propane	ACGIH-TLV TWA: 1000 ppm

Engineering controls	General ventilation normally adequate.
Personal protective equipment	
Eye/Face protection	Wear safety glasses with side shields.
Hand protection	Rubber gloves. Confirm with a reputable supplier first.
Skin and body protection	As required by employer code.
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands and face before breaks and immediately after handling the product.

9. Physical & Chemical Properties

Appearance	Clear.
Colour	Colorless to pale yellow
Form	compressed liquefied gas
Odour	Pine
Odour threshold	Not available
Physical state	Liquid
pH	Not available
Freezing point	Not available
Boiling point	16.00 °C (60.8 °F)
Flash point	-104.44 °C (-156 °F)
Evaporation Rate	> 1
Flammability limits in air, lower, % by volume	Not available
Flammability Limits in Air, Upper, % by Volume	Not available
Vapour pressure	584 kPa @70°F
Vapour density	> 1
Specific gravity	0.79 (Concentrate)
Octanol/water coefficient	Not available
Solubility (H2O)	Negligible
Auto-ignition temperature	Not available

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Aerosol containers are unstable at temperatures above 49°C (120.2°F). Do not mix with other chemicals.

Incompatible materials Acids. Oxidizers. Soft metals.
Hazardous decomposition products May include and are not limited to: Oxides of carbon.
Possibility of hazardous reactions Hazardous polymerisation does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Butane	Not available
Distillates (petroleum), light hydrotreated	5.2 mg/l/4h rat
Ethanol	31623 ppm rat
Fragrance	Not available
Propane	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Butane	Not available
Distillates (petroleum), light hydrotreated	5000 mg/kg rat
Ethanol	3450 mg/kg mouse; 1501 mg/kg rat
Fragrance	Not available
Propane	Not available

Effects of acute exposure

Eye	May cause irritation.
Skin	May cause irritation. May be absorbed through the skin.
Inhalation	Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).
Ingestion	Not a normal route of exposure. May cause stomach distress, nausea or vomiting.
Sensitisation	Non-hazardous by WHMIS criteria.
Chronic effects	Non-hazardous by WHMIS criteria.
Carcinogenicity	Non-hazardous by WHMIS criteria.
ACGIH - Threshold Limits Values - Carcinogens	
Ethanol	64-17-5 A4 - Not Classifiable as a Human Carcinogen
Mutagenicity	Mutagenic effects were observed in somatic and reproductive cells of live animals (rats and mice) exposed to high oral doses of ethanol.
Reproductive effects	Non-hazardous by WHMIS criteria.
Teratogenicity	Non-hazardous by WHMIS criteria.

12. Ecological Information

Ecotoxicity effects Components of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Fish Species Data

Distillates (petroleum), light hydrotreated	64742-47-8	96 Hr LC50 Pimephales promelas: 45 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 1740 mg/L [static]
Ethanol	64-17-5	96 Hr LC50 Oncorhynchus mykiss: 12900 mg/L [flow-through] (30 days old); 96 Hr LC50 Pimephales promelas: 14.2 mg/L

Ecotoxicity - Microtox Data

Ethanol	64-17-5	5 min EC50 Photobacterium phosphoreum: 35470 mg/L; 30 min EC50 Photobacterium phosphoreum: 34634 mg/L
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Ecotoxicity - Water Flea Data

Distillates (petroleum), light hydrotreated	64742-47-8	96 Hr LC50 Den-dronereides heteropoda: 4720 mg/L
Ethanol	64-17-5	48 Hr EC50 Daphnia magna: 9268 mg/L; 24 Hr EC50 Daphnia magna: 10800 mg/L

Environmental effects	Not available
Aquatic toxicity	Not available
Persistence and degradability	Not available

Bioaccumulation/accumulation	Not available
Partition coefficient	Not available
Mobility in environmental media	Not available
Chemical fate information	Not available

13. Disposal Considerations

Waste codes	Not available
Disposal instructions	Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

Transportation of Dangerous Goods (TDG)

Basic shipping requirements:

Proper shipping name	AEROSOLS, flammable
Hazard class	2.1
UN number	UN1950
Additional information:	
Special provisions	80
Packaging exceptions	<1L - Consumer Commodity



15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada - WHMIS - Ingredient Disclosure List

Butane	106-97-8	1 %
Ethanol	64-17-5	0.1 %

WHMIS classification Class A - Compressed Gas, Class B - Division 5; Flammable Aerosol, Class D - Division 2A, 2B

WHMIS status Controlled

WHMIS labeling



Inventory Status

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

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

16. Other Information

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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