

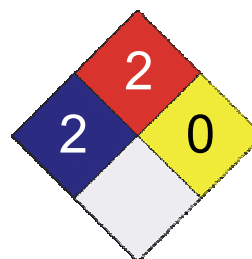
MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name 870 – XA006C Pro Link Vandalism Remover
CAS # Mixture
Product Use Vandalism remover
Manufacturer Pro-Link, Inc.
Ottawa, ON 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	2
Physical Hazard	0
Personal Protection	X



2. Hazards Identification

Emergency Overview DANGER
Extremely flammable. Contents under pressure. Containers may explode when heated.
Toxic.
CONTAINS MATERIAL WHICH MAY CAUSE CANCER.
Contains a potential teratogen.
Contains a potential mutagen.
EYE AND SKIN IRRITANT.

Potential short term health effects

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

Eyes Causes 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). This product may be fatal if it is inhaled.

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

Target organs Eyes. Kidney. Liver. Lungs. Respiratory system. Skin.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis. Prolonged or repeated overexposure can cause liver and kidney damage.

Signs and symptoms Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Symptoms are prostration, gasping, pallor, and uncoordinated movements. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Propylene oxide	75-56-9	0.1 - 1
Amides, coco, N,N-bis(hydroxyethyl)	68603-42-9	1 - 5
Toluene	108-88-3	10 - 30
Butane	106-97-8	15 - 40
Methylene chloride	75-09-2	30 - 60
Propane	74-98-6	7 - 13
Perchloroethylene	127-18-4	7 - 13

4. First Aid Measures

First aid procedures

Eye contact	Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.
Skin contact	Immediately flush with 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. Immediate medical attention is required.

5. Fire-fighting Measures

Flammable properties

Flammable by WHMIS criteria. Containers may explode when heated. Flammable aerosol by flame projection test.

Extinguishing media

Suitable extinguishing media Carbon dioxide. Dry chemical. Foam.

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 or walk through spilled material. 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.

7. Handling and Storage

Handling

Use good industrial hygiene practices in handling this material. Do not get this material in your eyes, on your skin, or on your clothing.

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
Amides, coco, N,N-bis(hydroxyethyl)	ACGIH-TLV Not established
Butane	ACGIH-TLV TWA: 1000 ppm
Methylene chloride	ACGIH-TLV TWA: 50 ppm
Perchloroethylene	ACGIH-TLV TWA: 25 ppm STEL: 100 ppm
Propane	ACGIH-TLV TWA: 1000 ppm
Propylene oxide	ACGIH-TLV TWA: 2 ppm
Toluene	ACGIH-TLV TWA: 20 ppm Skin: 50 ppm

Engineering controls

General ventilation normally adequate. Provide adequate ventilation.

Personal protective equipment

Eye/Face protection

Chemical splash goggles.

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. Avoid breathing mists or vapours.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical & Chemical Properties

Appearance	Compressed liquefied gas
Colour	Clear pale yellow
Form	Misty spray
Odour	Solvent
Odour threshold	Not available
Physical state	Gas
pH	Not available
Freezing point	Not available
Boiling point	25.00 °C (77 °F) (Estimated)
Flash point	< -17.77 °C (< 0 °F) (Propellant)
Evaporation Rate	Not available
Flammability	18.21 kJ/g (Estimated)
Flammability limits in air, lower, % by volume	Not available
Flammability Limits in Air, Upper, % by Volume	Not available
Vapour pressure	308 kPa
Vapour density	Not available
Specific gravity	1.207 (Concentrate)

Octanol/water coefficient	Not available
Solubility (H2O)	Negligible
Auto-ignition temperature	Not available
VOC (Weight %)	Not available
Viscosity	Water thin
Percent volatile	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	Aerosol containers are unstable at temperatures above 49°C.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Hydrogen chloride.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Amides, coco, N,N-bis(hydroxyethyl)	Not available
Butane	Not available
Methylene chloride	14250 mg/m3 rat
Perchloroethylene	5200 ppm mouse; 3786 ppm rat; 17100 mg/l/4h rat
Propane	Not available
Propylene oxide	Not available
Toluene	12.5 mg/l/4h rat

Component analysis - Oral LD50

Ingredient(s)	LD50
Amides, coco, N,N-bis(hydroxyethyl)	2700 mg/kg rat
Butane	Not available
Methylene chloride	1410 mg/kg rat
Perchloroethylene	2600 mg/kg rat
Propane	Not available
Propylene oxide	Not available
Toluene	636 mg/kg rat

Effects of acute exposure

Eye	Causes 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). This product may be fatal if it is inhaled.
Ingestion	Not a normal route of exposure. May cause stomach distress, nausea or vomiting.
Sensitisation	Non-hazardous by WHMIS criteria.
Local effects	Very toxic by inhalation.
Chronic effects	Non-hazardous by WHMIS criteria.

Carcinogenicity	Contains potential carcinogens.	
ACGIH - Threshold Limits Values - Carcinogens		
Methylene chloride	75-09-2	A3 - Confirmed animal carcinogen with unknown relevance to humans.
Perchloroethylene	127-18-4	A3 - Confirmed animal carcinogen with unknown relevance to humans.
Propylene oxide	75-56-9	A3 - Confirmed animal carcinogen with unknown relevance to humans.
Toluene	108-88-3	A4 - Not Classifiable as a Human Carcinogen
IARC - Group 2A (Probably Carcinogenic to Humans)		
Perchloroethylene	127-18-4	Monograph 63 [1995], Supplement 7 [1987]
IARC - Group 2B (Possibly Carcinogenic to Humans)		
Methylene chloride	75-09-2	Monograph 71 [1999], Supplement 7 [1987]
Propylene oxide	75-56-9	Monograph 60 [1994], Supplement 7 [1987]
IARC - Group 3 (Not Classifiable)		
Toluene	108-88-3	Monograph 71 [1999], Monograph 47 [1989]
Mutagenicity	Contains potential mutagens. Methylene chloride is considered mutagenic based on positive results obtained in mice exposed by inhalation.	
Reproductive effects	Non-hazardous by WHMIS criteria.	
Teratogenicity	Contains a potential teratogen.	

12. Ecological Information

Ecotoxicity effects	Components of this product have been identified as having potential environmental concerns.	
Ecotoxicity - Freshwater Algae Data		
Methylene chloride	75-09-2	96 Hr EC50 Selenastrum capricornutum: >660 mg/L
Perchloroethylene	127-18-4	96 Hr EC50 Selenastrum capricornutum: >816 mg/L
Propylene oxide	75-56-9	96 Hr EC50 Selenastrum capricornutum: 240 mg/L
Toluene	108-88-3	96 Hr EC50 Selenastrum capricornutum: >433 mg/L
Ecotoxicity - Freshwater Fish Species Data		
Amides, coco, N,N-bis(hydroxyethyl)	68603-42-9	96 Hr LC50 Brachydanio rerio: 3.6 mg/L [semi-static]
Methylene chloride	75-09-2	96 Hr LC50 Pimephales promelas: 193 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 310 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 10.95 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 193 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 193 mg/L [flow-through]
Perchloroethylene	127-18-4	96 Hr LC50 Oncorhynchus mykiss: 5.28 mg/L [static] (12 °C); 96 Hr LC50 Pimephales promelas: 13.4 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 12.9 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4.99 mg/L [flow-through]
Propylene oxide	75-56-9	96 Hr LC50 Lepomis macrochirus: 215 mg/L [static]
Toluene	108-88-3	96 Hr LC50 Pimephales promelas: 25 mg/L [flow-through] (1 day old); 96 Hr LC50 Oncorhynchus mykiss: 24.0 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 24.0 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 13 mg/L [static]
Ecotoxicity - Microtox Data		
Amides, coco, N,N-bis(hydroxyethyl)	68603-42-9	16 Hr EC50 Pseudomonas putida: 6000 mg/L
Methylene chloride	75-09-2	24 Hr EC50 Nitrosomonas: 1 mg/L; 15 min EC50 Photobacterium phosphoreum: 2.88 mg/L
Perchloroethylene	127-18-4	30 min EC50 Photobacterium phosphoreum: 120.0 mg/L; 24 Hr EC50 Nitrosomonas: 112 mg/L; 24 Hr EC50 Tetrahymena pyriformis: 100 mg/L
Propylene oxide	75-56-9	160 min EC50 Bacillus subtilis: 3300 mg/L
Toluene	108-88-3	30 min EC50 Photobacterium phosphoreum: 19.7 mg/L
Ecotoxicity - Water Flea Data		
Amides, coco, N,N-bis(hydroxyethyl)	68603-42-9	24 Hr EC50 Daphnia magna: 5.4 mg/L
Methylene chloride	75-09-2	48 Hr EC50 water flea: 140 mg/L [Static]
Perchloroethylene	127-18-4	48 Hr EC50 Daphnia magna: 7.49 mg/L
Propylene oxide	75-56-9	48 Hr EC50 Daphnia magna: 350 mg/L
Toluene	108-88-3	48 Hr EC50 water flea: 11.3 mg/L; 48 Hr EC50 water flea: 310 mg/L; 48 Hr EC50 Daphnia magna: 11.3 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, containing substances in Class 6.1, packing group III
Hazard class	2.1 (6.1)
UN number	UN1950
Additional information:	
Special provisions	80



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 %
Methylene chloride	75-09-2	0.1 %
Perchloroethylene	127-18-4	1 %
Propylene oxide	75-56-9	1 %
Toluene	108-88-3	1 %

WHMIS classification Class A - Compressed Gas, Class B - Division 5; Flammable Aerosol, Class D - Division 1B, 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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