

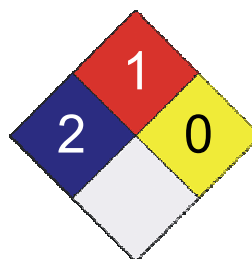
MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name 064 – XA008C Pro Link Solvent Cleaner & Degreaser
CAS # Mixture
Product Use Cleaner/Degreaser
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	1
Physical Hazard	0
Personal Protection	X



2. Hazards Identification

Emergency Overview DANGER
Contents under pressure. Containers may explode when heated.
Toxic.
CONTAINS MATERIAL WHICH MAY CAUSE CANCER.
Contains a potential mutagen.
EYE IRRITANT. Skin irritation possible with prolonged exposure.

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. Respiratory system. Skin.

Chronic effects Chronic exposure to trichloroethylene may cause liver, kidney, central nervous system and peripheral nervous system 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 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
Carbon dioxide	124-38-9	1 - 5
Trichloroethylene	79-01-6	60 - 100

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.

5. Fire-fighting Measures

Flammable properties	Not flammable by WHMIS criteria. Non-flammable aerosol by flame projection test. Containers may explode when heated.
Extinguishing media	
Suitable extinguishing media	Carbon dioxide. Water Fog. 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. Hydrogen chloride.
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. Large Spills: Wet down with water and dike for later disposal. After removal flush contaminated area thoroughly with water.

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
Carbon dioxide	ACGIH-TLV TWA: 5000 ppm STEL: 30000 ppm
Trichloroethylene	ACGIH-TLV TWA: 10 ppm STEL: 25 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.

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	Compressed liquefied gas
Colour	Clear Colourless
Form	Misty spray
Odour	Characteristic
Odour threshold	Not available
Physical state	Gas
pH	Not available
Freezing point	Not available
Boiling point	84.00 °C (183.2 °F) (Estimated)
Flash point	None
Evaporation Rate	Not available
Flammability	0 K (estimated)
Flammability limits in air, lower, % by volume	Not available
Flammability Limits in Air, Upper, % by Volume	Not available
Vapour pressure	667 kPa
Vapour density	Not available
Specific gravity	1.4646 (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	Caustics. Oxidizers.

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
Carbon dioxide	Not available
Trichloroethylene	8450 ppm mouse; 8000 mg/l/4h rat

Component analysis - Oral LD50

Ingredient(s)	LD50
Carbon dioxide	Not available
Trichloroethylene	2402 mg/kg mouse; 4290 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.
Chronic effects	Chronic exposure to trichloroethylene may cause liver, kidney, central nervous system and peripheral nervous system effects.
Carcinogenicity	Contains a potential carcinogen.

ACGIH - Threshold Limits Values - Carcinogens

Trichloroethylene 79-01-6 A2 - Suspected Human Carcinogen

IARC - Group 2A (Probably Carcinogenic to Humans)

Trichloroethylene 79-01-6 Monograph 63 [1995], Supplement 7 [1987]

Mutagenicity Contains a potential mutagen.

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 Algae Data

Trichloroethylene 79-01-6 96 Hr EC50 Scenedesmus subspicatus: 450 mg/L

Ecotoxicity - Freshwater Fish Species Data

Trichloroethylene 79-01-6 96 Hr LC50 Pimephales promelas: 40.7 mg/L [flow-through]; 96 Hr LC50 Brachydanio rerio: 60 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 45 mg/L [static]

Ecotoxicity - Microtox Data

Trichloroethylene 79-01-6 5 min EC50 Photobacterium phosphoreum: 975 mg/L; 10 min EC50 Photobacterium phosphoreum: 115 mg/L; 15 min EC50 Photobacterium phosphoreum: 190 mg/L; 24 Hr EC50 Tetrahymena pyriformis: 410 mg/L; 24 Hr EC50 Bacillus subtilis: 235 mg/L; 24 Hr EC50 Nitrosomonas: 0.81 mg/L

Ecotoxicity - Water Flea Data

Trichloroethylene 79-01-6 48 Hr EC50 Daphnia magna: 2.2 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, non-flammable, containing substances in Class 6.1, packing group III
Hazard class	2.2 (6.1)
UN number	UN1950
Additional information:	
Special provisions	80
Packaging exceptions	<L - Consumer Commodity

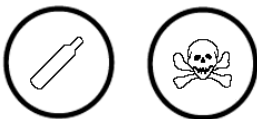


15. Regulatory Information

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		
Carbon dioxide	124-38-9	1 %
Trichloroethylene	79-01-6	1 %

WHMIS classification Class A - Compressed Gas, 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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