

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number KA005C
Product name Pro-Link Oven Cleaner
Effective date 30-Nov-2010
Company information Pro-Link Inc
Ottawa Ontario, K1Z 1E9 Canada
Company phone General Assistance 1-800-74-LINKS
Emergency telephone US 800-424-9300
Emergency telephone outside US 703-527-3887
Version # 09
Supersedes date 01-Jun-2010
Expiry Date 31-Jul-2013

2. Hazards Identification

Emergency overview Aerosol. CONTENTS UNDER PRESSURE.
Will be easily ignited by heat, spark or flames. Causes skin and eye burns.

Potential health effects

Routes of exposure Eye contact. Skin contact. Ingestion.

Eyes Causes chemical burns. Corrosive to the eyes and may cause severe damage including blindness.

Skin Causes chemical burns. May be harmful if absorbed through skin.

Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Causes burns. May cause irritation of respiratory tract.

Ingestion Exposure by ingestion of an aerosol is unlikely. Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts. Components of the product may be absorbed into the body by ingestion.

Target organs Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.

Central nervous system. Eyes. Lungs. Skin.

Chronic effects May be harmful if absorbed through skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Diethylene Glycol Monobutyl Ether	112-34-5	7 - 13
Sodium Hydroxide	1310-73-2	3 - 7
Propane	74-98-6	1 - 5
n-Butane	106-97-8	1 - 5
Monoethanolamine	141-43-5	1 - 5
Hectorite Clay	12173-47-6	0.5 - 1.5
Non-hazardous and other components below reportable levels		60 - 100

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Continue rinsing. Get medical attention immediately.

Skin contact Immediately flush skin with plenty of water. Remove and isolate contaminated clothing and shoes. Get medical attention immediately.

Inhalation	If symptoms develop move victim to fresh air. Call a physician or Poison Control Center immediately.
Ingestion	In the unlikely event of swallowing contact a physician or poison control center. Never give anything by mouth to a victim who is unconscious or is having convulsions. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

5. Fire Fighting Measures

Flammable properties	Heat may cause the containers to explode. 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. Some of these materials, if spilled, may evaporate leaving a flammable residue. Do not direct water at source of leak or safety devices as icing may occur. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Unusual fire & explosion hazards	Heat may cause the containers to explode. Ruptured cylinders may rocket.

6. Accidental Release Measures

Methods for containment	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). If possible, turn leaking containers so that gas escapes rather than liquid. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas.
Methods for cleaning up	Clean up in accordance with all applicable regulations. Should not be released into the environment. Ventilate the area. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

7. Handling and Storage

Handling	Pressurized container: Do not pierce or burn, even after use. When using do not smoke. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Wear positive pressure self-contained breathing apparatus (SCBA). 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 re-use empty containers. Do not get this material in contact with skin.
Storage	Level 1 Aerosol. Contents under pressure. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Avoid exposure to long periods of sunlight. Keep at temperature not exceeding 49 °C. Store in a well-ventilated place. Keep container dry. Keep in an area equipped with sprinklers. Store at ambient temperature and atmospheric pressure.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Components	CAS #	TWA	STEL	Ceiling
Diethylene Glycol Monobutyl Ether	112-34-5	20 ppm	Not established	Not established
Sodium Hydroxide	1310-73-2	Not established	Not established	2 mg/m3
Propane	74-98-6	1000 ppm	Not established	Not established
n-Butane	106-97-8	1000 ppm	Not established	Not established
Monoethanolamine	141-43-5	3 ppm	6 ppm	Not established
Hectorite Clay	12173-47-6	0.025 mg/m3	Not established	Not established

Personal protective equipment

Eye / face protection	Do not get in eyes. Chemical goggles are recommended.
Skin protection	Wear appropriate chemical resistant clothing. Chemical resistant gloves.

Respiratory protection

Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. 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	384.8 °F (196.1 °C) estimated
Color	Colorless.
Evaporation rate	Not available
Flammability (HOC)	5.7 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	Ammoniacal.
Odor threshold	Not available
pH	13 - 14
Physical state	Liquid.
Pressure	85 - 105 psig @ 70F
Solubility (H2O)	Not miscible.
Specific gravity	1.0091 estimated

10. Chemical Stability & Reactivity Information

Conditions to avoid	Aerosol containers are unstable at temperatures above 49°C. Heat, flames and sparks.
Hazardous decomposition products	Irritants. Toxic gas.

11. Toxicological Information

Acute effects Acute LD50: 12919 mg/kg estimated, Rat, Dermal

Component analysis - LD50**Toxicology Data - Selected LD50s and LC50s**

Diethylene Glycol Monobutyl Ether	112-34-5	Oral LD50 Rat 3384 mg/kg; Dermal LD50 Rabbit 2700 mg/kg
Hectorite Clay	12173-47-6	Oral LD50 Rat >5000 mg/kg
Monoethanolamine	141-43-5	Oral LD50 Rat 1720 mg/kg; Dermal LD50 Rabbit 1 mL/kg; Dermal LD50 Rabbit 1025 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
Sodium Hydroxide	1310-73-2	Dermal LD50 Rabbit 1350 mg/kg

Sensitization	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	May be harmful if absorbed through skin.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.

12. Ecological Information

Ecotoxicity	LC50 703 mg/L, Fish, 96.00 Hours, EC50 3071 mg/L, Daphnia, 48.00 Hours, IC50 687 mg/L, Algae, 72.00 Hours, Components of this product are hazardous to aquatic life.
Environmental effects	Harmful to aquatic organisms.

13. Disposal Considerations

Disposal instructions

Contents under pressure. Dispose of this material and its container to 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, containing substances in Class 8, packing group II
Hazard class	2.1
UN number	UN1950
Marine pollutant	•
Special provisions	80 SOR/2002-306
Packaging exceptions	If <0.125L: 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

Diethylene Glycol Monobutyl Ether	112-34-5	1 %
Monoethanolamine	141-43-5	1 %
n-Butane	106-97-8	1 %
Sodium Hydroxide	1310-73-2	1 %

WHMIS status

Controlled

WHMIS classification

A - Compressed Gas
D2B - Other Toxic Effects-TOXIC
E - Corrosive

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)	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)	Yes
New Zealand	New Zealand Inventory	No
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

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 in the sheet was written based on the best knowledge and experience currently available.

MSDS sections updated

Product and Company Identification: Product Review
Transport Information: Agency Name and Packaging Type/Transport Mode Selection

Prepared by

Regulatory Compliance