



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number CA002C
Product name Chewing Gum Remover
Effective date 12-Mar-2010
Company information Pro-Link, Inc.
Ottawa, Ontario K1Z 1E9 Canada

Company phone General Assistance 630-543-7600
Emergency telephone US 800-424-9300
Emergency telephone outside US 703-527-3887
Version # 02
Supersedes date 14-Oct-2009
Expiry Date 31-Mar-2013

2. Hazards Identification

Emergency overview Flammable aerosol. CONTENTS UNDER PRESSURE.
Yields a flame projection at full valve opening or a flashback at any degree of valve opening. Heat may cause the containers to explode. May be fatal if inhaled. Irritating to eyes and skin. May cause chronic toxic effects.

Potential health effects

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

Eyes Contact with eyes may cause irritation.

Skin Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Prolonged inhalation may be harmful.

Ingestion Exposure by ingestion of an aerosol is unlikely. May cause delayed lung damage. Components of the product may be absorbed into the body by ingestion.

Target organs Blood. Central nervous system. Eyes. Liver. Lungs. Skin.

Chronic effects Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

3. Composition / Information on Ingredients

| Components | CAS # | Percent |
|--|----------|--------------|
| n-Butane | 106-97-8 | 40 - 70 |
| Propane | 74-98-6 | 15 - 40 |
| Ethyl Alcohol | 64-17-5 | 5 - 10 |
| Non-hazardous and other components below reportable levels | | 0.0001 - 0.1 |

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 if irritation develops and persists.

Skin contact Wash off immediately with soap and plenty of water. Remove and isolate contaminated clothing and shoes. Get medical attention if irritation develops and persists. 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. Get medical attention, if needed.

Ingestion

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. Do not induce vomiting without advice from poison control center. Do not use mouth-to-mouth method if victim ingested the substance.

5. Fire Fighting Measures

Flammable properties

Flammable by WHMIS criteria. Heat may cause the containers to explode. Ruptured cylinders may rocket. Vapors may travel considerable distance to a source of ignition and flash back.

Extinguishing media**Suitable extinguishing media**

Foam. Dry chemical. Carbon dioxide (CO₂). Do not use water jet.

Unsuitable extinguishing media

Do not use water jet.

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. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. 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

Flammable by WHMIS criteria. Heat may cause the containers to explode. Ruptured cylinders may rocket. Vapors may travel considerable distance to a source of ignition and flash back.

6. Accidental Release Measures

Methods for containment

Stop leak if you can do so without risk. 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. 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). Prevent entry into waterways, sewer, basements or confined areas.

Methods for cleaning up

Clean up in accordance with all applicable regulations. Ventilate the 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 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. 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. Avoid contact with skin. Avoid contact with eyes. Avoid breathing mist or vapor. Wear personal protective equipment. When using do not eat or drink.

Storage

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 out of the reach of children. Level 3 Aerosol.

8. Exposure Controls / Personal Protection

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

n-Butane

106-97-8

1000 ppm

Not established

Not established

Propane

74-98-6

1000 ppm

Not established

Not established

Ethyl Alcohol

64-17-5

1000 ppm

1000 ppm

Not established

Personal protective equipment**Eye / face protection**

Wear safety glasses with side shields (or goggles).

Skin protection
Respiratory protection

Wear suitable protective clothing. Wear protective gloves.
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 | 1.4 °F (-17.2 °C) estimated |
| Color | Colorless. |
| Evaporation rate | Not available |
| Flammability (HOC) | 41.9872 kJ/g estimated |
| Flammability limits in air, lower, % by volume | Not available |
| Flammability limits in air, upper, % by volume | Not available |
| Flash back | Yes |
| Flash point | -156 °F (-104.4 °C) Propellant |
| Form | Compressed gas. Aerosol. |
| Freezing point | Not available |
| Odor | Pleasant. |
| Odor threshold | Not available |
| pH | Not Applicable |
| Physical state | Gas. |
| Pressure | 50 - 70 psig @ 70 F |
| Solubility (H2O) | Not miscible. |
| Specific gravity | 0.5743 estimated |

10. Chemical Stability & Reactivity Information

| | |
|---|--|
| Chemical stability | Risk of ignition. |
| Conditions to avoid | Heat, flames and sparks. Aerosol containers are unstable at temperatures above 49°C. |
| Hazardous decomposition products | No hazardous decomposition products are known. |

11. Toxicological Information

Acute effects Acute LC50: 489 mg/l/4h estimated, Rat, Inhalation

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

| | | |
|---------------|----------|----------------------------------|
| Ethyl Alcohol | 64-17-5 | Oral LD50 Rat 7060 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 |

Carcinogenicity

ACGIH - Threshold Limit Values - Carcinogens

Ethyl Alcohol 64-17-5 A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

IARC - Group 1 (Carcinogenic to Humans)

Ethyl Alcohol 64-17-5 Monograph 96 [in preparation] (in alcoholic beverages)

Reproductive effects Not expected to be hazardous by WHMIS criteria.

Chronic toxicity Not expected to be hazardous by WHMIS criteria.

12. Ecological Information

13. Disposal Considerations

Disposal instructions Contents under pressure. Do not puncture, incinerate or crush. Dispose of this material and its container to hazardous or special waste collection point. 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

| | | |
|---------------|----------|-------|
| Ethyl Alcohol | 64-17-5 | 0.1 % |
| n-Butane | 106-97-8 | 1 % |

WHMIS status Controlled

WHMIS classification A - Compressed Gas
B5 - Flammable/Combustible
D2A - Other Toxic Effects-VERY TOXIC
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) | No |
| New Zealand | New Zealand Inventory | No |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |
| 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® ratings Health: 1*
Flammability: 4
Physical hazard: 0

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

Prepared by Regulatory Compliance

