



Pro Form Products Ltd.
604 McGeachie Drive
Milton, Ontario, L9T 3Y5
Canada
905-878-4990

PRODUCT: PBC 5301 FOAMING GLASS CLEANER

SECTION 01: IDENTIFICATION

Initial supplier identifier..... Pro Form Products Ltd.
604 McGeachie Drive
Milton, Ontario L9T3Y5
Tel (905) 878-4990 Fax (905) 878-1189

Product identifier..... PBC 5301 FOAMING GLASS CLEANER

Recommended use and restrictions on .. Cleaner.
use

Chemical family..... Mixture.

NFPA rating..... Health: 1 Fire: 4 Reactivity: 0.

HMIS..... H: 1 F: 4 R: 0.

24 hour emergency number..... For transportation emergencies (in Canada) call CANUTEC 1-888-226-8832 (CAN-UTEC);
IN THE UNITED STATES CALL CHEMTREC 1-800-424-9300.
** For medical emergencies contact your local poison control centre **.

SECTION 02: HAZARD IDENTIFICATION



Signal Word..... DANGER.

Hazard Classification..... Flammable Aerosols — Category 1. Gases Under Pressure: Liquefied Gas. Eye Irritation — Category 2A.

Hazard Description..... H222 Extremely flammable aerosol. H229 Pressurized container: may burst if heated. H280 Contains gas under pressure; may explode if heated. H319 Causes serious eye irritation.

Prevention..... P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking. P211 Do not spray on an open flame or other ignition sources. P251 Do not pierce or burn container, even after use. P264 Wash thoroughly after handling. P280 Wear protective gloves and eye protection.

Response P305 + P351 + P338 If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing until medical help arrives. P337 + P313 - If eye irritation persists get medical attention.

Storage..... P403 Store in a well ventilated area. P410 Protect from sunlight. P412 Do not expose to temperature exceeding 50°C / 122°F.

Disposal..... P501 Dispose all unused, waste or empty containers in accordance with local regulations.

Note This product mixture has been classified based on its ingredients.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Propoxy propanol	1569-01-3	1-5
Isobutane	75-28-5	1-5
Propane	74-98-6	1-5
Propylene glycol monobutyl ether	5131-66-8	1-5
Dipropylene Glycol Monomethyl Ether	34590-94-8	1-5
<<The actual concentration(s) withheld as a trade secret>> .		

SECTION 04: FIRST-AID MEASURES

Eye contact..... Flush for 15 minutes using plenty of water. If irritation persists seek medical attention.

Skin contact..... Wash skin with soap and water. If irritation persists, seek medical attention.

Inhalation..... If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention.

PRODUCT: PBC 5301 FOAMING GLASS CLEANER**SECTION 04: FIRST-AID MEASURES**

Ingestion..... Rinse mouth with water. Do not induce vomiting. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, Causes eye irritation. Symptoms may include stinging, tearing, redness, swelling, and whether acute or delayed blurred vision. Direct contact with eyes may cause temporary irritation.

Additional information..... Treat victims symptomatically. In the event of an incident involving this product ensure that medical authorities are provided a copy of this safety data sheet. See sections 2 and 11.

SECTION 05: FIRE-FIGHTING MEASURES

Suitable and unsuitable extinguishing "Alcohol" foam, CO₂, dry chemical. In cases of larger fires, water spray should be used. media

Specific hazards arising from the Extremely flammable aerosol. Thermal decomposition products are toxic. May include:. hazardous product, such as the nature of Oxides of carbon (CO, CO₂). Hazardous organic compounds.

any hazardous combustion products

Special protective equipment and Extremely flammable aerosol. Firefighter should be equipped with self-contained breathing precautions for fire-fighters apparatus and full protective clothing to protect against potentially toxic and irritating fumes. Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosive rupture. Keep run-off water from entering sewers and other waterways. Dike for water control.

Unusual fire / explosion hazards..... Vapours may be heavier than air. May travel long distances along the ground before igniting and flashing back to vapour source.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective Ventilate area, eliminate all sources of ignition, sound alarm, avoid all skin and eye contact equipment and emergency procedures and avoid breathing vapours. Isolate area and keep unauthorized people away. Do not walk through spilled material. Wear recommended protective equipment. Ventilate. Open windows and doors to allow air circulation. Dike area to prevent spreading. The use of absorbent socks or spill pillows may be required. Stop leak if safe to do so. Prevent runoff into drains, sewers, and other waterways.

Methods and materials for containment Dike area to contain the spill, prevent runoff from going into drains, absorb residual and cleaning up material with an inert absorbent, shovel or pump to a properly labelled container and dispose of as a hazardous waste.

Leak/spill..... Keep away from heat, sparks and flames. Eliminate all sources of ignition. Follow all applicable fire and explosion precautions during the spill response procedure. Wear recommended protective equipment. No action shall be taken involving any personal risk or without suitable training.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling..... Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Keep away from heat, sparks, and open flame. Always adopt precautionary measures against build-up of static which may arise from appliances, handling and the containers in which product is packed. Ground handling equipment. Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. Avoid breathing vapours or mist. Handle and open container with care. Employees should wash hands and face before eating or drinking.

Conditions for safe storage, including any incompatibilities Keep container closed when not in use. Store away from all sources of heat and ignition. Store away from oxidizing and reducing materials. Store away from sunlight. Do not store above 50 deg C.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	ACGIH TLV		OSHA PEL		NIOSH
	TWA	STEL	PEL	STEL	
Propoxy propanol	Not established		Not established		Not established
Isobutane	Not established	Not established	Not established	Not established	800 ppm
Propane	1,000 ppm	Not established	1,000 ppm	Not established	1,000 ppm
Propylene glycol monobutyl ether	Not Established	Not Established	Not Established	Not Established	Not Established
Dipropylene Glycol Monomethyl Ether	100 ppm	150 ppm	No data	150 ppm	STEL: 900 mg/m ³
CA ON: 100 ppm (TWAEV), 150 ppm (STEV)					

PRODUCT: PBC 5301 FOAMING GLASS CLEANER**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

Appropriate engineering controls.....	Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits. Local mechanical exhaust ventilation should be used at sources of air contamination, such as open process equipment, or during purging operations, to capture gases and fumes that may be emitted. Standard reference sources regarding industrial ventilation (ie. ACGIH industrial ventilation) should be consulted for guidance about adequate ventilation. Explosion-proof exhaust ventilation.
Personal Protective Equipment Respiratory/type.....	Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits.
Eye/type.....	Liquid chemical goggles. Chemical safety goggles and full faceshield if a splash hazard exists.
Gloves/ type.....	Wear skin protection equipment. The selection of skin protection equipment depends on the nature of the work to be performed. Insulated gloves. (for aerosols). Contact glove supplier for recommendations.
Clothing/type.....	Wear adequate protective clothes.
Footwear/type.....	Safety boots per local regulations.
Other/type.....	Emergency showers and eye wash stations should be available. Employees should wash their hands and face before eating, drinking, or using tobacco products.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state.....	Aerosol.
Colour.....	Clear, colourless.
Odour.....	Characteristic odour.
Odour threshold (ppm).....	Not available.
pH.....	Not available.
Melting / Freezing point (deg C).....	< 0 °C.
Initial boiling point / boiling range (deg C).....	~ 100°C . (Liquid).
Flash point (deg C), method.....	48 C. (estimate; lowest flash point ingredient).
Evaporation rate.....	Similar to water.
Flammability (solids and gases).....	Flammable aerosol.
Upper flammable limit (% vol).....	23.5. (liquid).
Lower flammable limit (% vol).....	1.1. (liquid).
Vapour pressure (mm Hg).....	Aerosol vapour pressure: No data.
Vapour density (air=1).....	>1.
Relative Density (Specific Gravity).....	0.99.
Pounds / USG.....	8.22.
Solubility.....	Soluble.
Partition coefficient — n-octanol/water.....	Not available.
Auto ignition temperature (deg C).....	No data.
Decomposition temperature.....	Not available.
Viscosity.....	13" Zahn #2. (liquid).
VOC (less water).....	No data.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Product is stable; hazardous polymerization will not occur.
Chemical stability.....	Stable at normal temperatures and pressures.
Possibility of hazardous reactions.....	Hazardous polymerization will not occur.
Conditions to avoid, including static discharge, shock or vibration	Keep away from heat. Electrostatic charge.
Incompatible materials.....	Strong oxidizing agents, acids, bases.
Hazardous decomposition products.....	No hazardous decomposition products when stored and handled correctly. See hazardous combustion products section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Propoxy propanol	>2,230 ppm 6 HOURS RAT	2,519 mg/kg RAT ORAL; 3,818 mg/kg RABBIT DERMAL
Isobutane	52 mg/L 1 hour mouse	Not available
Propane	>1,464 mg/L 15 minutes rat	Not available
Propylene glycol monobutyl ether	>651 ppm 4 Hr Rat	2,700 mg/kg Rat Oral >2,000 mg/kg Rat Skin
Dipropylene Glycol Monomethyl Ether	>500 ppm 7 hours Rat	5,180 mg/kg Rat Oral; 9,500 mg/kg Rabbit Dermal

PRODUCT: PBC 5301 FOAMING GLASS CLEANER**SECTION 11: TOXICOLOGICAL INFORMATION**

Route of exposure.....	Eye contact. Skin contact. Inhalation.
Symptoms related to the physical, chemical and toxicological characteristics	
Effects of acute exposure.....	Breathing this material may be harmful. Contact with eyes may cause irritation.
Effects of chronic exposure.....	Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal. May cause reproductive and mutagenic effects.
Carcinogenicity of material.....	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC or ACGIH.
Reproductive effects.....	No data on reproductive effects were found in the literature sources consulted.
Mutagenicity.....	The data does not allow for an adequate assessment of the mutagenic effect.
Sensitizing capability of material.....	None known.
Specific Target Organ Toxicity	No known adverse effects.

SECTION 12: ECOLOGICAL INFORMATION

Environmental..... No product data. Do not allow to enter waters, waste water or soil.

SECTION 13: DISPOSAL CONSIDERATIONS

Information on safe handling for disposal and methods of disposal, including any contaminated packaging . This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Contents under pressure. Do not puncture, incinerate or expose to heat, even when empty.

SECTION 14: TRANSPORT INFORMATION

TDG Classification..... UN1950 - AEROSOLS, flammable - Class 2.1 - This product meets limited quantity exemption when shipped in containers less than 1 Litre.
 DOT Classification (Road)..... UN1950 - AEROSOLS, flammable - Class 2.1 - Ltd Qty (1 Liter/0.26 Gallons).
 IATA Classification (Air)..... UN1950 - AEROSOLS, flammable - Class 2.1 - Limited Quantity. Do not ship by air without checking appropriate IATA regulations.
 IMDG Classification (Marine)..... UN1950 - AEROSOLS - Class 2.1 - EmS: F-D, S-U - Limited Quantity. Check IMDG regulations for limited quantity exemptions.
 Marine Pollutant..... No.
 Proof of Classification..... In accordance with Part 2.2.1 of the Transportation of Dangerous Goods Regulations (July 2, 2014) - we certify that classification of this product is correct. .

SECTION 15: REGULATORY INFORMATION

CEPA status..... On Domestic Substances List (DSL).
 TSCA inventory status..... All components are listed.
 OSHA..... This product is considered hazardous under the OSHA Hazard Communication Standard.
 SARA Title III
 Section 302 - extremely hazardous Diethanolamine.
 substances
 Section 311/312 - hazard categories..... Immediate health. Fire hazard. Pressure.
 Section 313..... None above De minimus % limit.
 EPA hazardous air pollutants (HAPS) Diethanolamine. Formaldehyde. Methanol.
 40CFR63
 California Proposition 65..... *** ! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause birth defects or other reproductive harm. (Methanol). *** ! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause cancer . (Diethanolamine). (Formaldehyde - dissolved). For more information, go to www.P65Warnings.ca.gov.

SECTION 16: OTHER INFORMATION

Prepared by: REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com.
 Telephone number:..... (800) 387-7981.
 Disclaimer:..... DISCLAIMER: All information appearing herein is based upon data obtained from experience and recognized technical sources. To the best of our knowledge, it is believed to be correct as of the date of issue but we make no representations as to its accuracy or sufficiency and do not suggest or guarantee that any hazards listed herein are the only ones which exist. The hazard information contained herein is offered solely for the consideration of the user, subject to his own investigation and verification of compliance with applicable regulations, including the safe use of the product under every foreseeable condition. The information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.
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 data sheet