



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

**PRODUCT: PF 513 AMMONIA GLASS CLEANER 10% VOC - 500 g**

### 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..... PF 513 AMMONIA GLASS CLEANER 10% VOC - 500 g

Recommended use and restrictions on .. Glass cleaner. No restrictions on use known.  
use

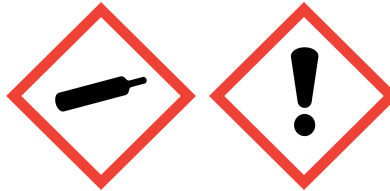
Chemical family..... Aerosol.

NFPA rating..... Health: 2 Fire: 4 Reactivity: 0.

HMIS..... H: 2 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..... WARNING.

Hazard Classification..... Aerosol - Category 3. Gas under pressure: Compressed Gas. Eye Irritation — Category 2A.

Hazard Description..... 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. P251 Do not pierce or burn container, even after use. P264 Wash thoroughly after handling. P265 Do not touch eyes. 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. %
Isopropyl Alcohol	67-63-0	3-7
Isobutane	75-28-5	1-5
Diethylene Glycol Monoethyl Ether	111-90-0	1-5
D-Glucopyranose, oligomeric, C9-11-alkyl glycosides	132778-08-6	0.1-1
Disodium Lauryl Phenyl Ether Disulfonate	119345-04-9	0.1-1
<<The actual concentration(s) withheld as a trade secret>> .		

### SECTION 04: FIRST-AID MEASURES

Eye contact..... In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Check for and remove any contact lenses, if safe and easy to do so. Obtain medical attention.

Skin contact..... Immediately remove all contaminated clothing, flush skin with water for at least 15 minutes. Wash clothing before reuse. If irritation persists, seek medical attention.

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**SECTION 04: FIRST-AID MEASURES**

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

Ingestion..... If ingestion is suspected, contact physician or poison control center immediately. Do not induce vomiting. If spontaneous vomiting occurs have victim lean forward with head down to prevent aspiration of fluid into the lungs. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, .... Direct eye contact may cause temporary eye irritation.

whether acute or delayed

Immediate medical attention and special . Provide supportive measures and treat symptomatically. In case of shortness of breath treatment needed, if necessary give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**SECTION 05: FIRE-FIGHTING MEASURES**

Suitable extinguishing media..... Dry chemical. CO2. Foam. Water fog. Water spray.

Unsuitable extinguishing media..... Do not use solid water streams or water jet.

Specific hazards arising from the ..... Contents under pressure. Pressurized container may explode when exposed to heat or flame. . Non-flammable aerosol.

hazardous product, such as the nature of any hazardous combustion products

Special protective equipment and ..... Firefighter should be equipped with self-contained breathing apparatus and full protective precautions for fire-fighters clothing to protect against potentially toxic and irritating fumes. Collect contaminated fire extinguishing water separately. Keep run-off water from entering sewers and other waterways. Dike for water control. Remove undamaged containers is safe to do so.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective ..... Evacuate personnel to a safe area. Keep unnecessary and unprotected personnel from equipment and emergency procedures entering spill area and upwind from spill area. Ensure adequate ventilation. Area will be slippery. Remove all sources of ignition.

Environmental precautions..... Do not allow product to leak into drains or waterways. If spill does contaminate waterways then inform authorities.

Methods and materials for containment . Contain spilled material and then collect with non-combustible absorbent material, (e.g. and cleaning up sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

**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. Keep away from heat, sparks, and open flame. Avoid contact with eyes. Avoid breathing vapours or mist. Handle and open container with care. Use adequate ventilation.

Conditions for safe storage, including any incompatibilities Store in a cool area, away from incompatible materials. Store in a well ventilated area. Keep away from heat, sparks, and open flames. Store away from sunlight. Store away from all sources of heat and ignition. Store away from incompatible materials.

**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	TWA	ACGIH TLV STEL	REL	OSHA PEL STEL	NIOSH
Isopropyl Alcohol	200 ppm	400 ppm	400 ppm (TWA)	500 ppm	400 ppm
	CA ON: 200 ppm (TWA), 400 ppm (STEL)				
Isobutane	Not established	Not established	Not established	Not established	800 ppm
Diethylene Glycol	Not available	Not available	Not available	Not available	Not available
Monoethyl Ether	Not available				
D-Glucopyranose, oligomeric, C9-11-alkyl glycosides	Not available	Not available	Not available	Not available	Not available
	Not available				
Disodium Lauryl Phenyl Ether Disulfonate	Not available	Not available	Not available	Not available	Not available
	Not available				

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Personal Protective Equipment	
Respiratory/type.....	Wear a NIOSH respirator for emergency use. Respiratory equipment not generally required under normal conditions of use. If airborne concentrations are above applicable exposure limits use a NIOSH approved respirator. Consult your personal protective equipment supplier for additional recommendations.
Eye/type.....	Safety glasses. Consult your personal protective equipment supplier for additional recommendations.
Gloves/ type.....	Not normally required. Wear rubber or latex gloves during prolonged use of the product. Observe the instructions regarding permeability and breakthrough time. Consult your personal protective equipment supplier for additional recommendations.
Clothing/type.....	Wear adequate protective clothes. Consult your personal protective equipment supplier for additional recommendations.
Footwear/type.....	Safety boots per local regulations. Consult your personal protective equipment supplier for additional recommendations.
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.
Appropriate engineering controls.....	Local exhaust should be used to maintain levels below the exposure limits. Ground all equipment and cylinders before use. .

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Physical state.....	Aerosol. Foam.
Colour.....	Not available.
Odour.....	Fragrance.
Odour threshold (ppm).....	Not available.
pH.....	10-11.
Initial boiling point / boiling range (deg C).....	Not available.
Melting / Freezing point (deg C).....	Not available.
Vapour pressure (mm Hg).....	Not available.
Vapour density (air=1).....	>1.
Relative Density (Specific Gravity).....	0.950 - 1.000.
Evaporation rate.....	Not available.
VOC Content.....	NMT 10.
Solubility.....	Soluble.
Aerosol Ignition Distance.....	Ignition distance of less than 15 cm.
Flashback.....	No.
Auto ignition temperature (deg C).....	460°C (860°F). (Propellant).
Flash point (deg C), method.....	-82.8 Closed cup . (Propellant).
Lower flammable limit (% vol).....	1.8. (Propellant).
Upper flammable limit (% vol).....	8.8. (Propellant).
NOTE.....	NMT = Not More Than.

**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 .....	Keep away from heat. Flame. Electrostatic charge. Incompatible with strong oxidizers.
discharge, shock or vibration	
Hazardous decomposition products.....	No hazardous decomposition products when stored and handled correctly.

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
Isopropyl Alcohol	72600 mg/m3, rat (4 hr)	1870 mg/kg (oral, rat). 4059 mg/kg (dermal, rabbit)
Isobutane	52 mg/L 1 hour mouse	Not available
Diethylene Glycol Monoethyl Ether	Not available	Oral (rat) 5500 mg/kg
D-Glucopyranose, oligomeric, C9-11-alkyl glycosides	Not available	Not available
Disodium Lauryl Phenyl Ether Disulfonate	Not available	Oral (rat): 1976 mg/kg
Route of exposure.....	Inhalation. Skin contact. Eye contact.	
Symptoms related to the physical, chemical and toxicological characteristics	Irritation effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Defatting of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.	
Skin corrosion/irritation.....	Based on available data, the classification criteria are not met. .	
Serious eye damage/eye irritation.....	Causes serious eye irritation.	

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Respiratory or Skin Sensitization.....	Not classified.
Carcinogenicity.....	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.
Mutagenicity.....	No component of this product present at levels greater than or equal to 0.1% .
Reproductive effects.....	No data on reproductive effects were found in the literature sources consulted.
STOT-SE.....	No data.
STOT-RE.....	No data.
Aspiration Hazard.....	No data.
Chronic toxicity.....	No long term are known or expected.

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity.....	No available data on the product itself. This product should not be released to the environment. This product contains the following substance which may also be hazardous for the environment: Isopropanol (CAS#: 67-63-0): Toxicity to fish: LC50 9,640 mg/L, 96 hrs; Toxicity to other aquatic invertebrates: 5,102 mg/L, 96 hrs; Toxicity to algae: EL50 >2,000 mg/L, 72 hrs.
Mobility in soil.....	Product has not been tested.
Bioaccumulative potential.....	Product has not been tested.
Persistence and degradability.....	Product has not been tested.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Information on safe handling for disposal and methods of disposal, including any contaminated packaging	Dispose of waste in accordance with all applicable Federal, Provincial/State and local regulations.
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**SECTION 14: TRANSPORT INFORMATION**

TDG Classification.....	UN1950 - AEROSOLS - Class 2.2 - limited quantity 1L.
DOT Classification (Road).....	UN1950 - AEROSOLS - Class 2.2 - limited quantity 1L. Refer to 49CFR 172.101 for additional non-bulk packaging requirements.
IATA Classification (Air).....	UN1950 - AEROSOLS, non-flammable - Class 2.2 - Ltd. Qty. Do not ship by air without checking appropriate IATA regulations.
IMDG Classification (Marine).....	UN1950 - AEROSOLS - Class 2.2 - Limited Quantity. Check IMDG regulations for limited quantity exemptions.
Marine Pollutant.....	Potential marine pollutant.
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 substances	None known.
Section 311/312 - hazard categories.....	Immediate health, delayed health, fire hazard.
Section 313.....	Isopropyl alcohol.
EPA hazardous air pollutants (HAPS) ..... 40CFR63	Isobutane. Isopropyl alcohol.
California Proposition 65.....	This product does not contain any chemical(s) known to the State of California to cause cancer or reproductive toxicity. For more information, go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .

**SECTION 16: OTHER INFORMATION**

Prepared by: .....	REGULATORY AFFAIRS.
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.
Review Date:.....	2022-11-30.

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**SECTION 16: OTHER INFORMATION**

Date of the latest revision of the safety .. 2023-11-30  
data sheet