



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

PRODUCT: PF 514 GLASS CLEANER WITH AMONIA

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 514 GLASS CLEANER WITH AMONIA

Recommended use and restrictions on .. Glass cleaner. This product should not be used for any other purpose other than the ones
use described in this section.

Chemical family..... Paint additive.

NFPA rating..... Health: 2 Fire: 3 Reactivity: 0.

HMIS..... H: 2 F: 3 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 Liquid 2. Eye Irritant 2.

Hazard Description..... H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.

Prevention..... P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking. P233
Keep container tightly closed. P240 Ground and bond container and receiving equipment.
P241 Use explosion proof equipment. P242 Use only non-sparking tools. P243 Take
precautionary measures against static discharge. P264 Wash thoroughly after handling.
P280 Wear protective gloves and eye protection.

Response P303 + P361 + P353 If on skin or in hair: take off all contaminated clothing immediately.
Rinse thoroughly with water and use safety shower . P370 + P378 In case of fire - use dry
chemical powder, CO2 or foam to extinguish. 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 + P235 Store in well ventilated area. Keep cool.

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

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Isopropyl Alcohol	67-63-0	7-13
Propoxy propanol	1569-01-3	1-5
Dipropylene Glycol Monomethyl Ether	34590-94-8	1-2
Propylene glycol monobutyl ether	5131-66-8	1-2

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. Obtain medical attention.

Skin contact..... Remove all contaminated clothing and immediately wash the exposed areas with copious
amounts of water for a minimum of 30 minutes or up to 60 minutes for critical body areas. 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: PF 514 GLASS CLEANER WITH AMONIA**SECTION 04: FIRST-AID MEASURES**

Ingestion..... If ingestion is suspected, contact physician or poison control center immediately. 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.

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.

SECTION 05: FIRE-FIGHTING MEASURES

Suitable and unsuitable extinguishing media "Alcohol" foam, CO₂, dry chemical. Do not use a solid stream of water.

Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products Oxides of carbon (CO, CO₂). Toxic vapours may be evolved upon exposure to heat or open flame.

Special protective equipment and precautions for fire-fighters Firefighter should be equipped with self-contained breathing apparatus and full protective clothing to protect against potentially toxic and irritating fumes. Solvent vapours may be heavier than air and may build up and travel along the ground to an ignition source, which may result in a flash back to the source of the vapours. Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosive rupture. Heat will cause pressure buildup and may cause explosive rupture.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak/spill..... Ventilate. Eliminate all sources of ignition. Contain the spill. Avoid all personal contact. Evacuate all non-essential personnel. Prevent runoff into drains, sewers, and other waterways. Absorb with earth, sand, or another dry inert material. Shovel into suitable unsealed containers, transport to well-ventilated area (outside) and treat with neutralizing solution: mixture of water (80%) with non-ionic surfactant Tergitol TMN-10 (20%); or water (90%), concentrated ammonia (3-8%) and detergent (2%).

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling..... Avoid breathing vapours or mist. Ground handling equipment. Handle and open container with care. Keep away from heat, sparks, and open flame.

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.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV		PEL	OSHA PEL		REL	NIOSH
		STEL	STEL		STEL	STEL		
Isopropyl Alcohol	200 ppm CA ON: 200 ppm (TWA), 400 ppm (STEL)	400 ppm		400 ppm (TWA)	500 ppm		400 ppm	
Propoxy propanol	Not established			Not established			Not established	
Dipropylene Glycol Monomethyl Ether	100 ppm CA ON: 100 ppm (TWAEV), 150 ppm (STEV)	150 ppm		No data	150 ppm		STEL: 900 mg/m ³	
Propylene glycol monobutyl ether	Not Established	Not Established		Not Established	Not Established		Not Established	
Eye/type.....	Liquid chemical goggles.							
Gloves/ type.....	Chemical resistant gloves.							
Clothing/type.....	Wear adequate protective clothes.							
Footwear/type.....	Safety boots per local regulations.							
Respiratory/type.....	Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits.							
Other/type.....	Emergency showers and eye wash stations should be available.							
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.							

PRODUCT: PF 514 GLASS CLEANER WITH AMONIA**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Physical state.....	Liquid.
Colour.....	No data.
Odour.....	No data.
Odour threshold (ppm).....	Not available.
pH.....	Not applicable.
Melting / Freezing point (deg C).....	< 0.
Initial boiling point / boiling range (deg C).....	>82 °C .
Flash point (deg C), method.....	12 °C. (estimated).
Evaporation rate.....	No data. Similar to water.
Upper flammable limit (% vol).....	16.9.
Lower flammable limit (% vol).....	1.3.
Vapour pressure (mm Hg).....	No data.
Vapour density (air=1).....	>1.
Relative Density (Specific Gravity).....	0.968 - 8.07 lb/USG.
Solubility.....	Miscible.
Partition coefficient — n-octanol/water.....	Not available.
Auto ignition temperature (deg C).....	>260°C.
Decomposition temperature.....	Not available.
Viscosity.....	No data.
VOC (less water).....	8.01 lbs/USG.

SECTION 10: STABILITY AND REACTIVITY

Chemical stability.....	Stable at normal temperatures and pressures.
Reactivity	Avoid heat, sparks and flames. Explosive reactions can occur in the presence of strong oxidizing agents.
Possibility of hazardous reactions.....	Will not occur under normal temperature and pressure.
Conditions to avoid, including static discharge, shock or vibration	Keep away from heat. Aldehydes. Halogenated compounds. Strong acids. Strong oxidizers.
Hazardous decomposition products.....	Oxides of carbon (CO,CO2).

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)
Propoxy propanol	>2,230 ppm 6 HOURS RAT	2,519 mg/kg RAT ORAL; 3,818 mg/kg RABBIT DERMAL
Dipropylene Glycol Monomethyl Ether	>500 ppm 7 hours Rat	5,180 mg/kg Rat Oral; 9,500 mg/kg Rabbit Dermal
Propylene glycol monobutyl ether	>651 ppm 4 Hr Rat	2,700 mg/kg Rat Oral >2,000 mg/kg Rat Skin
Route of exposure.....	Eye contact. Skin contact. Inhalation.	
Effects of acute exposure.....	Can be irritating to eyes and skin. May cause irritation in the respiratory tract. Inhalation of vapours or mist may cause drowsiness or dizziness.	
Effects of chronic exposure.....	None known.	
Carcinogenicity of material.....	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.	
Reproductive effects.....	No known reproductive effects.	

SECTION 12: ECOLOGICAL INFORMATION

Environmental.....	Do not allow to enter waters, waste water or soil.
Persistence and degradability.....	Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Information on safe handling for disposal and methods of disposal, including any contaminated packaging Empty containers must be handled with care due to product residue. This material and its container must be disposed of as hazardous waste. Avoid release to the environment.

PRODUCT: PF 514 GLASS CLEANER WITH AMONIA**SECTION 14: TRANSPORT INFORMATION**

TDG Classification.....	UN1993 - FLAMMABLE LIQUID, N.O.S. (Isopropyl Alcohol) - Class 3 - Packing Group II - This product meets the Limited Quantity exemption when packaged in containers less than 1 Litre.
IATA Classification (Air).....	UN1993 - FLAMMABLE LIQUID, N.O.S. (Isopropyl Alcohol) - Class 3 - PGII.
IMDG Classification (Marine).....	UN1993 - FLAMMABLE LIQUID, N.O.S. (Isopropyl Alcohol) - Class 3 - PGII.
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 substances	Ammonia.
Section 311/312 - hazard categories.....	Immediate health. Fire hazard.
Section 313.....	Isopropyl alcohol.
EPA hazardous air pollutants (HAPS)	None.
40CFR63	
California Proposition 65.....	This product does not contain any chemical(s) known to the State of California to cause cancer or reproductive toxicity.

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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