



Pro Form Products Ltd.
604 McGeachie Drive
Milton; Ontario; L9T 3Y5
Canada

PRODUCT: PF 514 GLASS CLEANER WITH AMMONIA



Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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

PRODUCT NAME..... PF 514 GLASS CLEANER WITH AMMONIA
MATERIAL USE..... CLEANING SOLUTION.
CHEMICAL FAMILY..... MIXTURE.
24 HOUR EMERGENCY NUMBER..... IN CANADA CALL CANUTEC (613) 996-6666 - IN THE UNITED STATES CALL
CHEMTREC (800) 424-9300.

PREPARATION DATE..... JULY 15, 2011.
HAZARD RATE
NFPA RATING
HMIS

Section 02: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	%	Exposure Limit	C.A.S.#	LD/50, Route, Species	LC/50 Route, Species
ISOPROPYL ALCOHOL	7-13	400 ppm	67-63-0	5840 MG/KG ORAL RAT	16,000 ppm 8 HOURS INHALATION RAT
PROPOXY PROPANOL	1-5	NOT AVAILABLE	1569-01-3	2,519 mg/kg RAT ORAL; 3,818 mg/kg RABBIT DERMAL	>2,230 ppm 6 HOURS RAT
DIPROPYLENE GLYCOL MONOMETHYL ETHER	1-5	100 ppm	34590-94-8	5,180 mg/kg RAT ORAL; 9,500 mg/kg RABBIT DERMAL	>500 ppm 7 HOURS RAT
PROPYLENE GLYCOL MONOBUTYL ETHER	1-5	NOT ESTABLISHED	5131-66-8	2,700 mg/kg RAT ORAL; >2,000 mg/kg RAT SKIN	>651 ppm 4 HOURS RAT
AMMONIA	<0.1	25 mg/m3	7664-41-7	ORAL/RAT 350 mg/kg	2000 PPM/4HR RAT

Section 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY EYE CONTACT. SKIN CONTACT. INHALATION.
SKIN CONTACT..... CAN CAUSE MODERATE IRRITATION, DEFATTING AND DERMATITIS.
SKIN ABSORPTION..... MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.
EYE CONTACT..... CAN CAUSE REDNESS, IRRITATION, TISSUE DESTRUCTION.
INGESTION..... MAY BE HARMFUL OR FATAL IF SWALLOWED. SWALLOWING CAUSES
INEBRIATION, HEADACHE, VOMITING, LEADING TO SEVERE ILLNESS, BLINDNESS,
EVEN DEATH. ASPIRATION OF MATERIAL INTO LUNGS CAN CAUSE CHEMICAL
PNEUMONITIS WHICH CAN BE FATAL.

INHALATION (ACUTE)..... EXCESSIVE INHALATION OF VAPOURS CAN CAUSE RESPIRATORY IRRITATION,
DIZZINESS, HEADACHE, VOMITING AND UNCONSCIOUSNESS.
INHALATION (CHRONIC)..... CHRONIC EXPOSURE TO ORGANIC SOLVENT VAPORS HAVE BEEN ASSOCIATED
WITH VARIOUS NEUROTOXIC EFFECTS INCLUDING PERMANENT BRAIN AND/OR
NERVOUS SYSTEM DAMAGE, KIDNEY, LIVER, BLOOD DAMAGE AND
REPRODUCTIVE EFFECTS AMONG WOMEN. SYMPTOMS MAY INCLUDE NAUSEA,
VOMITING, ABDOMINAL PAIN, HEADACHE, IMPAIRED MEMORY, LOSS OF
COORDINATION, INSOMNIA AND BREATHING DIFFICULTIES.

EFFECTS OF CHRONIC EXPOSURE..... BREATHING HIGH CONCENTRATIONS OF VAPOUR MAY CAUSE ANESTHETIC
EFFECTS AND SERIOUS HEALTH EFFECTS. PROLONGED OR REPEATED SKIN
CONTACT MAY CAUSE DRYING OR CRACKING OF SKIN.

Section 04: FIRST AID MEASURES

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.

PRODUCT: PF 514 GLASS CLEANER WITH AMMONIA**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.....	DO NOT INDUCE VOMITING. IF INGESTION IS SUSPECTED, CONTACT PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. IF SPONTANEOUS VOMITING OCCURS HAVE VICTIM LEAN FORWARD WITH HEAD DOWN TO TO PREVENT ASPIRATION OF FLUID INTO THE LUNGS. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
EYE CONTACT.....	IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES, KEEPING EYELIDS OPEN, WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. OBTAIN MEDICAL ATTENTION.
ADDITIONAL INFORMATION.....	TREAT POISONING VICTIMS SYMPTOMATICALLY . THE MAIN HAZARD FROM INGESTION IS ASPIRATION OF THE LIQUID INTO THE LUNGS.

Section 05: FIRE FIGHTING MEASURES

FLAMMABILITY.....	COMBUSTIBLE.
FLASH POINT (deg C), METHOD.....	>38C.
AUTO IGNITION TEMPERATURE (deg C)...	NOT AVAILABLE.
UPPER FLAMMABLE LIMIT (% VOL).....	12.0.
LOWER FLAMMABLE LIMIT (% VOL).....	2.0.
EXTINGUISHING MEDIA.....	"ALCOHOL" FOAM, CO2, DRY CHEMICAL. IN CASES OF LARGER FIRES, WATER SPRAY SHOULD BE USED.
HAZARDOUS COMBUSTION PRODUCTS..	OXIDES OF CARBON (CO,CO2).
SENSITIVITY TO MECHANICAL IMPACT....	NOT SENSITIVE.
SENSITIVITY TO STATIC DISCHARGE.....	MAY BE SENSITIVE.
SPECIAL FIRE FIGHTING PROCEDURES..	FIREFIGHTER SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING 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. 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. SPILLED MATERIAL AND WATER RINSES ARE CLASSIFIED AS CHEMICAL WASTE, AND MUST BE DISPOSED OF IN ACCORDANCE WITH CURRENT LOCAL, PROVINCIAL, AND FEDERAL REGULATIONS. 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%).
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Section 07: HANDLING AND STORAGE

HANDLING PROCEDURES.....	AVOID ALL SKIN CONTACT AND VENTILATE ADEQUATELY, OTHERWISE WEAR AN APPROPRIATE BREATHING APPARATUS. ALWAYS ADOPT PRECAUTIONARY MEASURES AGAINST BUILD-UP OF STATIC WHICH MAY ARISE FROM APPLIANCES, HANDLING AND THE CONTAINERS IN WHICH PRODUCT IS PACKED. AVOID BREATHING VAPOURS OR MIST. GROUND HANDLING EQUIPMENT. HANDLE AND OPEN CONTAINER WITH CARE. EMPLOYEES SHOULD WASH HANDS AND FACE BEFORE EATING OR DRINKING. KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.
STORAGE NEEDS.....	KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES. KEEP CONTAINER CLOSED WHEN NOT IN USE. STORE AWAY FROM OXIDIZING AND REDUCING MATERIALS. STORE AWAY FROM SUNLIGHT.

Section 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

PROTECTIVE EQUIPMENT	
EYE/TYPE.....	LIQUID CHEMICAL GOGGLES.
RESPIRATORY/TYPE.....	LOCAL EXHAUST VENTILATION IS RECOMMENDED. WEAR AN APPROPRIATE, PROPERLY FITTED RESPIRATOR WHEN CONTAMINANT LEVELS EXCEED THE RECOMMENDED EXPOSURE LIMITS.
GLOVES/ TYPE.....	CHEMICAL RESISTANT GLOVES.
CLOTHING/TYPE.....	WEAR ADEQUATE PROTECTIVE CLOTHES.
FOOTWEAR/TYPE.....	SAFETY BOOTS PER LOCAL REGULATIONS.
OTHER/TYPE.....	EMERGENCY SHOWERS AND EYE WASH STATIONS SHOULD BE AVAILABLE.
VENTILATION REQUIREMENTS.....	LOCAL EXHAUST AT POINTS OF EMISSION.

PRODUCT: PF 514 GLASS CLEANER WITH AMMONIA**Section 09: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE.....	LIQUID.
ODOUR.....	PERFUMED SMELL.
COLOUR.....	CLEAR, COLOURLESS.
ODOUR THRESHOLD (ppm).....	NOT AVAILABLE.
VAPOUR DENSITY (AIR=1).....	> 1.
VAPOUR PRESSURE (mm Hg).....	NOT AVAILABLE.
EVAPORATION RATE.....	SIMILAR TO WATER.
BOILING POINT (deg C).....	>82C.
pH.....	NOT APPLICABLE.
SOLUBILITY IN WATER (% W/W).....	> 90%.
COEFFICIENT OF WATER\OIL	NOT AVAILABLE.
DISTRIBUTION	
SPECIFIC GRAVITY.....	0.98.
FREEZING POINT (deg C).....	NOT AVAILABLE.
% VOLATILE BY VOLUME.....	100%.
VOC.....	NOT AVAILABLE.

Section 10: STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION.....	HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
STABILITY.....	STABLE AT NORMAL TEMPERATURES AND PRESSURES.
INCOMPATIBILITY.....	KEEP AWAY FROM HEAT. INCOMPATIBLE WITH STRONG OXIDIZERS.
REACTIVITY CONDITIONS.....	AVOID HEAT, SPARKS AND FLAME. EXPLOSIVE REACTIONS CAN OCCUR IN THE PRESENCE OF STRONG OXIDIZING AGENTS.
HAZARDOUS PRODUCTS OF DECOMPOSITION	BY FIRE: DENSE BLACK SMOKE. OXIDES OF CARBON (CO,CO2).

Section 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMITS.....	ISOPROPYL ALCOHOL - ACGIH TLV 200 ppm STEL 400 ppm; OSHA PEL 400 ppm; NIOSH REL 400 ppm STEL 15 MINUTES 500 ppm. AMMONIA: ACGIH TLV 25 ppm - STEL 35 ppm 15 MIN; OSHA PEL 50 ppm - STEL 35 ppm; NIOSH REL 25 ppm STEL 35 ppm 15 MIN.
IRRITANCY OF MATERIAL.....	IRRITANT.
SENSITIZING CAPABILITY OF MATERIAL.....	NONE REPORTED.
CARCINOGENICITY OF MATERIAL.....	NONE KNOWN.
TERATOGENICITY.....	NOT AVAILABLE.
MUTAGENICITY.....	NOT AVAILABLE.
REPRODUCTIVE EFFECTS.....	NOT AVAILABLE.
SYNERGISTIC MATERIALS.....	NONE KNOWN.

Section 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL.....	DO NOT ALLOW TO ENTER WATERS, WASTEWATER OR SOIL.
BIODEGRADABILITY.....	NOT AVAILABLE.

Section 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL.....	THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF AS HAZARDOUS WASTE. AVOID RELEASE TO THE ENVIRONMENT.
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Section 14: TRANSPORT INFORMATION

TDG CLASSIFICATION.....	NOT APPLICABLE.
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Section 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION.....	D2B. B3.
CEPA STATUS.....	ON DOMESTIC SUBSTANCES LIST (DSL).
OSHA.....	THIS PRODUCT IS CONSIDERED HAZARDOUS UNDER THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD.
SARA TITLE III	
SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES	AMMONIA.
SECTION 311/312 - HAZARD CATEGORIES	IMMEDIATE HEALTH, DELAYED HEALTH, FIRE HAZARD.
SARA SECTION 313.....	ISOPROPYL ALCOHOL. AMMONIA.
EPA HAZARDOUS AIR POLLUTANTS (HAPS) 40CFR63	NONE.
TSCA INVENTORY STATUS.....	ALL COMPONENTS ARE LISTED.
CALIFORNIA PROPOSITION 65.....	THIS PRODUCT DOES NOT CONTAIN ANY CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR REPRODUCTIVE TOXICITY.

PRODUCT: PF 514 GLASS CLEANER WITH AMMONIA**Section 16: OTHER INFORMATION**

PREPARED BY: REGULATORY AFFAIRS.
TELEPHONE NUMBER: (800) 387-7981.
PREPARATION DATE: Jul15/11