



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

PRODUCT: PF 511 ALL PURPOSE SURFACE 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..... PF 511 ALL PURPOSE SURFACE CLEANER

Recommended use and restrictions on .. Surface cleaner.
use

Chemical family..... Mixture.

NFPA rating..... Health: 3 Fire: 4 Reactivity: 0.

HMIS..... H: 3 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. Gases Under Pressure: Liquefied Gas. Skin Irritation — Category 3. Eye Irritation — Category 2A. Carcinogenicity — Category 2.

Hazard Description..... H229 Pressurized container: may burst if heated. H280 Contains gas under pressure; may explode if heated. H316 Causes mild skin irritation. H319 Causes serious eye irritation. H351 This product contains ingredients that are suspected of causing cancer.

Prevention..... P201 Obtain special instructions before use. P202 Do not handle this product until all safety instructions have been read and understood. 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. 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. P332 + P313 - If skin irritation occurs get medical attention or advice. P308 + P313 If exposed or concerned, get medical advice/attention.

Storage..... P403 Store in a well ventilated area. P405 Store locked up. 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. %
Isobutane	75-28-5	5-10
2-Butoxyethanol	111-76-2	1-5
Ammonia	7664-41-7	0.1-1
Glycine, N,N-bis(carboxymethyl)-, trisodium salt	5064-31-3	0.1-1
<<The actual concentration(s) withheld as a trade secret>> .		

PRODUCT: PF 511 ALL PURPOSE SURFACE CLEANER**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.
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, whether acute or delayed	Causes skin irritation. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation. This product contains ingredients that may cause cancer. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
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	Carbon dioxide. Dry chemical. Foam. Water fog. Do not use water in a jet.
Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products	Carbon monoxide where combustion is incomplete. Hydrocarbon fumes and smoke.
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. 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.....	Non-flammable product but contains small portion of flammable propellant. Closed containers are contained under pressure and may explode if exposed to excess heat for a prolonged period of time. Vapours are heavier than air and can collect in low lying areas.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak/spill.....	Ventilate. Eliminate all sources of ignition. Wear recommended protective equipment. Evacuate all non-essential personnel. Contain the spill. Prevent runoff into drains, sewers, and other waterways. Use explosion-proof or hand pumps and non-sparking tools and equipment. Collect and contain in suitable containers. Do not use combustible materials such as sawdust as an absorbant. Spilled material and water rinses are classified as chemical waste, and must be disposed of in accordance with current local, provincial, state, and federal regulations.
-----------------	--

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. Ventilate adequately, otherwise wear an appropriate breathing apparatus. Avoid breathing vapours or mist. Avoid skin and eye contact. Handle and open container with care. Use non sparking tools. Ground handling equipment. Prevent accumulation of electrostatic charges. Employees should wash hands and face before eating or drinking.
Conditions for safe storage, including any incompatibilities	Store in a cool, dry and well ventilated area. 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. Do not store above 50 deg C.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	NIOSH REL
Isobutane	Not established	Not established	Not established	Not established	800 ppm
2-Butoxyethanol	20 ppm	No data	50 ppm (240 mg/m3)	No data	5 ppm (24 mg/m3)
Ammonia	25 ppm	35 ppm 15 minutes	50 ppm	35 ppm (vacated)	35 ppm - 35 ppm STEL 15 minutes
	25 mg/m3				

PRODUCT: PF 511 ALL PURPOSE SURFACE CLEANER**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Glycine, N,N-bis(carboxymethyl)-, trisodium salt	Not Established	Not Established	Not Established	Not Established	Not Established	Not Established
Personal Protective Equipment	Local exhaust ventilation is recommended. In case of insufficient ventilation, wear suitable respiratory equipment. An approved air purifying respirator with organic vapour cartridges and particulate prefilter can be used to minimize exposure. Use NIOSH approved respirator or equipment. Do not exceed the use limits of the respirator.					
Respiratory/type.....	Use chemical safety goggles and full face shield when there is potential for eye contact.					
Eye/type.....	Chemical resistant gloves.					
Gloves/ type.....	Wear adequate protective clothes.					
Clothing/type.....	Safety boots per local regulations.					
Footwear/type.....	Emergency showers and eye wash stations should be available. Employees should wash their hands and face before eating, drinking, or using tobacco products.					
Other/type.....	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.					
Appropriate engineering controls.....						

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state.....	Aerosol.
Colour.....	Cloudy.
Odour.....	Fragrant.
Odour threshold (ppm).....	Not available.
Vapour pressure (mm Hg).....	Aerosol vapour pressure: 45-75 (psig @ 21°C).
Vapour density (air=1).....	>1.
pH.....	10.5 - 13.
Relative Density (Specific Gravity).....	0.956 - 0.962. (Aerosol) . 0.992 - 0.998. (Liquid) .
Melting / Freezing point (deg C).....	Not available.
Solubility.....	Partially in water.
Initial boiling point / boiling range (deg C).....	~ 100°C .
Evaporation rate.....	No data.
Flash point (deg C), method.....	-82.8 C (iso-butane).
Auto ignition temperature (deg C).....	460 °C (propellant) .
Upper flammable limit (% vol).....	8.4.
Lower flammable limit (% vol).....	1.8.
Partition coefficient — n-octanol/water.....	Not available.
% Volatile by weight.....	No data.
VOC (less water).....	No data.
Viscosity.....	Not available.

SECTION 10: STABILITY AND REACTIVITY

Chemical stability.....	Stable at normal temperatures and pressures.
Reactivity	Avoid heat, sparks and flames. Avoid electrostatic discharge. Expected to be sensitive to static discharge when vapours in air are between the lower and upper explosive limits.
Possibility of hazardous reactions.....	Hazardous polymerization will not occur.
Conditions to avoid, including static	Keep away from heat. Electrostatic charge. Incompatible with strong oxidizers.
discharge, shock or vibration	
Hazardous decomposition products.....	See hazardous combustion products section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Isobutane	52 mg/L 1 hour mouse	Not available
2-Butoxyethanol	450 ppm 4 hr rat	1300 mg/kg (rat oral) >2000 mg/kg (rabbit dermal)
Ammonia	48.4 mg/L 1 hour rat	350 mg/kg oral rat
Glycine, N,N-bis(carboxymethyl)-, trisodium salt	>5 mg/L (Rat - 4 hrs)	1100 mg/kg (Oral - Rat)

PRODUCT: PF 511 ALL PURPOSE SURFACE CLEANER**SECTION 11: TOXICOLOGICAL INFORMATION**

Route of exposure.....	Eye contact. Skin contact. Inhalation. Skin absorption.
Effects of acute exposure.....	This product is harmful if inhaled or swallowed. Causes serious eye irritation. May cause skin irritation. May cause frostbite. Inhalation of vapours causes irritation to the nose, throat and respiratory tract. Inhalation of higher concentration may result in central nervous system depression and unconsciousness. High vapour concentrations reduce oxygen available for breathing, resulting in asphyxiation. Ingestion is not a likely route of exposure. If ingested, however, this product may be absorbed and result in gastrointestinal irritation, nausea, vomiting, and diarrhea.
Effects of chronic exposure.....	Repeated skin contact may result in defatting of the skin by the solvents in the product which can lead to redness and irritation of the skin. A substance in this product may cause skin sensitization after prolonged or repeated contact. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.
Carcinogenicity of material.....	An ingredient within this product is classified by IARC as group 2B, possibly carcinogenic to humans. (Glycine, N,N-bis(carboxymethyl)-, trisodium salt).
Reproductive effects.....	No data on reproductive effects were found in the literature sources consulted.

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	Contents under pressure. Do not puncture, incinerate or expose to heat, even when empty. Dispose of as an industrial waste in a manner acceptable to good waste management practice and in accordance with applicable local, provincial/State or federal regulations.
---	---

SECTION 14: TRANSPORT INFORMATION

TDG Classification.....	UN1950 - AEROSOLS, non-flammable - Class 2.2 - limited quantity 1L.
DOT Classification (Road).....	UN1950 - AEROSOLS, non-flammable - Class 2.2 - limited quantity 1L.
IATA Classification (Air).....	UN1950 - AEROSOLS, non-flammable - Class 2.2 - limited quantity Y203 - 30 kg. Do not ship by air without checking appropriate IATA regulations.
IMDG Classification (Marine).....	UN1950 - AEROSOLS, non-flammable - Class 2.2 - F-D, S-U. 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.
Section 311/312 - hazard categories.....	Immediate health, delayed health, fire hazard.
Section 313.....	None.
EPA hazardous air pollutants (HAPS)	None.
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 cancer . (Nitrilotriacetic acid, trisodium salt monohydrate). 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:	
Review Date:.....	2021-11-15.
Date of the latest revision of the safety data sheet	2018-05-30