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

PRODUCT: PF 684-1C URETHANE GRADE REDUCER LOW VOC - FAST

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 684-1C URETHANE GRADE REDUCER LOW VOC - FAST
Recommended use and restrictions on use	Paint reducer.
Chemical family.....	Mixture.
NFPA rating.....	Health: 1 Fire: 3 Reactivity: 1.
HMIS.....	H: 1 F: 3 R: 1.
24 hour emergency number:.....	For transportation emergencies (in Canada) call CANUTEC 1-888-226-8832 (CANUTEC); 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. Skin Corrosion/Irritation — Category 2. Serious Eye Damage/Eye Irritation — Category 2A.
Hazard Description.....	H225 Highly flammable liquid and vapour. H315 Causes skin irritation. 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	P370 + P378 In case of fire - use dry chemical powder, CO2 or foam to extinguish. P303 + P361 + P353 If on skin or in hair: take off all contaminated clothing immediately. Rinse thoroughly with water and use safety shower . P302 + P352 - If on skin: wash with plenty of water. P362 + P364 - Take off contaminated clothing and wash before reuse. P332 + P313 - If skin irritation occurs get medical attention or advice. 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. P321 - For specific treatment see section 4 on this SDS.
Storage.....	P403 + P235 Store in well ventilated area. Keep cool.
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. %
Acetone	67-64-1	40-70
4-Chlorobenzotrifluoride	98-56-6	30-60

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.

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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.
Most important symptoms and effects, ... whether acute or delayed	Harmful if swallowed, in contact with skin or if inhaled. Causes skin and eye 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.

SECTION 05: FIRE-FIGHTING MEASURES

Suitable extinguishing media.....	"Alcohol" foam, CO2, dry chemical. In cases of larger fires, water spray should be used. Do not use water in a jet.
Specific hazards arising from the ..... hazardous product, such as the nature of any hazardous combustion products	Oxides of carbon (CO, CO2). Hydrogen fluoride. Hydrogen chloride. Other potentially toxic fumes.
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. Keep run-off water from entering sewers and other waterways. Dike for water control.
Unusual fire / explosion hazards.....	Sensitive to static discharge.

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 or pump to drum or salvage tank. 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.....	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. Ensure that equipment is properly bonded and grounded during filling and transferring as product may become electrostatically charged. 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 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

INGREDIENTS	ACGIH TLV TWA	ACGIH TLV STEL	OSHA PEL PEL	OSHA PEL STEL	NIOSH REL
Acetone	250 ppm TLV	500 ppm	1,000 ppm	Not established	250 ppm
	CA ON AB: 500ppm (TWA); 750ppm (STEL)				
4-Chlorobenzotrifluoride	Not established	Not established	Not established	Not established	Not established

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.....	Chemical safety goggles and full faceshield if a splash hazard exists.
Gloves/ type.....	Chemical resistant gloves. Nitrile rubber. PVA.
Clothing/type.....	Wear adequate protective clothes.
Footwear/type.....	Safety boots per local regulations.
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. Ventilation system should be designed for vapors and explosion proof for handling solvent vapors.

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state	Liquid.
Colour	Clear, colourless.
Odour	Fruity characteristic.
Odour threshold (ppm)	Not available.
Vapour pressure (mm Hg)	<181 mmHg.
Vapour density (air=1)	> 2.
pH	Not applicable.
Relative Density (Specific Gravity)	7.7 lb/usg - 0.92 g/mL.
Melting / Freezing point (deg C)	< -33 °C.
Solubility	Partially in water.
Initial boiling point / boiling range (deg C).	56°C.
Evaporation rate	Not available.
Flash point (deg C), method	-18°C. (estimate; lowest flash point ingredient).
Auto ignition temperature (deg C)	No data.
Upper flammable limit (% vol)	12.6.
Lower flammable limit (% vol)	0.9.
Partition coefficient — n-octanol/water	Not available.
% Volatile by volume	100.
VOC LBS/GAL less water	0.0 g/L - 0.0 lb/usg.
Viscosity	13.2", Zahn #2.

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	Hazardous polymerization will not occur.
Conditions to avoid, including static discharge, shock or vibration	Keep away from heat. Incompatible with strong oxidizers.
Hazardous decomposition products	By fire:. Oxides of carbon (CO,CO2). Hydrogen chloride. Hydrogen fluoride. Dense black smoke.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Acetone	50,100 mg/m3 8 hours, rat	5,800 mg/kg (rat oral)
4-Chlorobenzotrifluoride	4479 ppm	>6,800 mg/kg (rat oral); >2,700 mg/kg (rabbit dermal)

Route of exposure	Eye contact. Skin contact. Inhalation.
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. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.
Skin contact	Causes skin irritation. 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.
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.
Ingestion	May be harmful or fatal if swallowed. Aspiration of material into lungs can cause chemical pneumonitis which can be fatal.
Carcinogenicity	None known.
Reproductive effects	None known.

SECTION 12: ECOLOGICAL INFORMATION

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

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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. This material and its container must be disposed of as hazardous waste. Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

TDG Classification	UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - This product meets the Limited Quantity exemption when packaged in containers less than 5 liters.
DOT Classification (Road)	UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - Ltd Qty (5 L). Refer to 49CRF 172.101 for additional non-bulk packaging requirement.
IATA Classification (Air)	UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II. Limited Quantity. Do not ship by air without checking appropriate IATA regulations.
IMDG Classification (Marine)	UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - EmS: F-E S-E. 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 substances	None.
Section 311/312 - hazard categories	Immediate health, delayed health, fire hazard.
Section 313	None.
EPA hazardous air pollutants (HAPS) 40CFR63	None.
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.
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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