



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

**PRODUCT: PF 686C ACRYLIC LACQUER THINNER 2.1 VOC**

## 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 686C ACRYLIC LACQUER THINNER 2.1 VOC

Recommended use and restrictions on .. Paint reducer.  
use

Chemical family..... Mixture.

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. Aspiration Toxicity 1. Skin Irritation — Category 2. Eye Irritation — Category 2A. Specific Target Organ Toxicity — Single Exposure — Category 3. (narcotic effects). Reproductive Toxicity — Category 2. Specific Target Organ Toxicity — Repeated Exposure — Category 2.

Hazard Description..... H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure.

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. 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. P260 Do not breathe mist, vapours, or spray. P264 Wash thoroughly after handling. P271 Use only outdoors or in a well ventilated area. 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. 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. P302 + P352 - If on skin: wash with plenty of water. P332 + P313 - If skin irritation occurs get medical attention or advice. P362 + P364 - Take off contaminated clothing and wash before reuse. P308 + P313 If exposed or concerned, get medical advice/attention. P301 + P310 If swallowed IMMEDIATELY CALL A POISON CONTROL CENTRE and follow instructions provided by the centre. P331 Do NOT induce vomiting. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell. P321 - For specific treatment see section 4 on this SDS.

Storage..... P405 Store locked up. P403 + P233 Store in a well ventilated area. Keep container tightly closed. P235 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.

**PRODUCT: PF 686C ACRYLIC LACQUER THINNER 2.1 VOC****SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Acetone	67-64-1	40-70
Toluene	108-88-3	10-30
tert-Butyl acetate	540-88-5	10-20
2-Butoxyethyl Acetate	112-07-2	5-10

**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. 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. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Causes damage to organs through prolonged or repeated exposure. This product contains ingredients that are suspected of damaging fertility or the unborn child.
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. 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). 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. 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. Keep run-off water from entering sewers and other waterways. Dike for water control.

**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 an inert dry material and place in an appropriate waste container. 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.
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**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. Ground handling equipment. 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. Store away from oxidizing and reducing materials. Keep container closed when not in use. Store away from sunlight.

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

**PRODUCT: PF 686C ACRYLIC LACQUER THINNER 2.1 VOC****SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Acetone	250 ppm TLV CA ON: 500ppm (TWA); 750ppm (STEL)	500 ppm	1,000 ppm	Not established	250 ppm
Toluene	20 ppm CA ON: TWA: 20 ppm	Not established	200 ppm	500 ppm 10 minutes	100 ppm / STEL 150 ppm
tert-Butyl acetate	200 ppm CA ON: 50ppm (TWA), 150ppm (STEL)	Not established	200 ppm	Not established	200 ppm
2-Butoxyethyl Acetate	20 ppm TLV	Not established	Not established	Not established	5 ppm
Personal Protective Equipment	Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits. Chemical safety goggles. Chemical safety goggles and full faceshield if splash hazard exists. Chemical resistant gloves. Wear adequate protective clothes. Safety boots per local regulations. Emergency showers and eye wash stations should be available. Local exhaust should be used to maintain levels below the TLV whenever isocyanate is processed, heated or spray applied. Ventilation system must be designed vapor and explosion proof for handling solvent vapors.				
Respiratory/type.....					
Eye/type.....					
Gloves/ type.....					
Clothing/type.....					
Footwear/type.....					
Other/type.....					
Appropriate engineering controls.....					

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Physical state.....	Liquid.
Colour.....	Clear, colourless.
Odour.....	Solvent odour.
Odour threshold (ppm).....	Not available.
Vapour pressure (mm Hg).....	< 181 mm Hg.
Vapour density (air=1).....	>1.
pH.....	Not applicable.
Relative Density (Specific Gravity).....	6.9 lb/usg - 0.827 g/mL.
Melting / Freezing point (deg C).....	< -62°C (-79°F).
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).....	340°C .
Upper flammable limit (% vol).....	12.6.
Lower flammable limit (% vol).....	0.9.
Partition coefficient — n-octanol/water.....	Not available.
% Volatile by volume.....	100.
VOC (less water).....	2.07 lb/usg - 248.04 g/L.
Viscosity.....	13.1 sec 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 .....	Keep away from heat. Incompatible with strong oxidizers. Strong acids and bases.
discharge, shock or vibration	
Hazardous decomposition products.....	By fire: Dense black smoke. Oxides of carbon (CO,CO2).

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
Acetone	50,100 mg/m3 8 hours, rat	5,800 mg/kg (rat oral)
Toluene	8000ppm rat inhalation 400ppm mouse inhalation 24hr	5,000 mg/kg rat oral; 12,124 mg/kg rabbit dermal

**PRODUCT: PF 686C ACRYLIC LACQUER THINNER 2.1 VOC****SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
tert-Butyl acetate	>2,230 mg/m3 4 hours rat	4,100 mg/kg (rat, oral); >2,000 mg/kg (rabbit, dermal)
2-Butoxyethyl Acetate	> 450 ppm rat 6h	1,600 mg/kg (rat, oral) 1,480 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.....	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 of material.....	None known.	
Reproductive effects.....	Toluene is fetotoxic in rats and mice at maternally toxic levels. Prolonged and repeated exposure of pregnant animals (>1500 ppm) to Toluene have been reported to cause adverse fetal developmental 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	This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Dispose of waste in accordance with all applicable Federal, Provincial/State and local regulations.
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**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 (1 litre). Refer to 49CFR 172.101 for additional non-bulk packaging requirements.
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.....	Toluene.
EPA hazardous air pollutants (HAPS) 40CFR63 .....	Toluene.
California Proposition 65.....	*WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

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SECTION 16: OTHER INFORMATION

Prepared by: .....  
Telephone number:.....  
Disclaimer:.....

REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com.  
(800) 387-7981.  
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:.....  
Date of the latest revision of the safety ..  
data sheet

2021-11-09.  
2017-12-14