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

PRODUCT: PF 653C SELF ETCHING PRIMER

SECTION 01: IDENTIFICATION

Product identifier.....	PF 653C SELF ETCHING PRIMER
Other means of identification	
Chemical family.....	Mixture.
Recommended use and restrictions on use ..	Paints.
Initial supplier identifier.....	Pro Form Products Ltd. 604 McGeachie Drive Milton, Ontario L9T3Y5 Tel (905) 878-4990 Fax (905) 878-1189
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 **.
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NFPA rating.....	Health: 2 Fire: 4 Reactivity: 0.
HMIS.....	H: 2 F: 4 R: 0.

SECTION 02: HAZARD IDENTIFICATION

Hazard Classification.....	Flammable Liquid 2. Acute Toxicity (Dermal) — Category 4. Skin Corrosion — Category 1. Serious Eye Damage — Category 1. Specific Target Organ Toxicity — Single Exposure — Category 3. (narcotic effects). (respiratory system). Reproductive Toxicity — Category 1. Specific Target Organ Toxicity — Single Exposure — Category 2.
Signal Word.....	DANGER.
Hazard Description.....	H225 Highly flammable liquid and vapour. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H360 May damage fertility or the unborn child. H371 May cause damage to organs.
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. P270 Do not eat drink or smoke while using this product. 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 . P302 + P352 - If on skin: wash with plenty of water. P362 + P364 - Take off contaminated clothing and wash before reuse. 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. P310 - Immediately call your local poison control centre. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P301 + P330 + P331 If Swallowed: Rinse mouth. Do NOT induce vomiting. P308 + P311 If exposed or concerned; call a poison center or doctor. P312 Call a POISON CENTER/doctor if you feel unwell.
Storage.....	P233 Keep container tightly closed. P403 + P235 Store in well ventilated area. Keep cool. P405 Store locked up.
Disposal.....	P501 Dispose all unused, waste or empty containers in accordance with local regulations.
Note	Health Hazards Not Otherwise Classified — Category 1. This product mixture has been classified based on its ingredients.

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SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Acetone	67-64-1	65-85
Ethyl Alcohol	64-17-5	10-30
Butyl Alcohol	71-36-3	1-5
Methanol	67-56-1	1-5
Phosphoric Acid	7664-38-2	3-7
Ethyl Acetate	141-78-6	0.5-1.5
<<The actual concentration(s) withheld as a trade secret>>	.	

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 prevent aspiration of fluid into the lungs. Never give anything by mouth to an unconscious person.

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. Obtain medical attention immediately. Chemical burns must be treated immediately by a physician.

Eye contact..... Immediately flush eyes with running water for a minimum of 30 minutes preferably up to 60 minutes. Check for and remove any contact lenses, if safe and easy to do so. Get medical attention immediately.

Most important symptoms and effects, ... whether acute or delayed

Harmful if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Methyl alcohol: The intoxication begins with central nervous system depression resulting in narcosis, followed by an asymptomatic latency period that usually lasts 12 to 24 hours. Metabolic acidosis sets in and symptoms such as headache, dizziness, nausea and vomiting appear. This is followed, in more serious cases, by abdominal and muscular pains as well as breathing difficulties. There are also disorders such as blurred vision, photophobia, impaired pupillary reflex and eye pain. May cause damage to organs. May cause respiratory irritation. 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

"Alcohol" foam, CO2, dry chemical. Alcohol resistant foams (ATC type) preferred. 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

Extremely flammable. Acetone is a highly flammable liquid. It is easily ignited in the presence of heat, an ignition source such as a naked flame or a spark (including electrostatic discharge). Aqueous solutions of acetone can also ignite. Acetone vapors are heavier than air and can travel a long distance to an ignition source and cause flashback. Thermal decomposition products are toxic. May include:. Oxides of carbon (CO, CO2). Oxides of phosphorous. Formaldehyde.

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

Personal precautions, protective ..... equipment and emergency procedures

Extremely flammable liquid. No action shall be taken involving any personal risk or without suitable training. Equipment should be grounded. Use non-sparking tools and equipment to pick up the spilled material. Isolate area and keep unauthorized people away. Do not walk through spilled material. Wear recommended protective equipment. Ventilate. Open windows and doors to allow air circulation. Dike area to prevent spreading. The use of absorbent socks or spill pillows may be required. Stop leak if safe to do so. Prevent runoff into drains, sewers, and other waterways.

Methods and materials for containment and cleaning up

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SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak/spill..... Evacuate all non-essential personnel. Avoid all personal contact. Ventilate. Eliminate all sources of ignition. Wear recommended protective equipment. Use explosion-proof or hand pumps and non-sparking tools and equipment. Use non-sparking tools and equipment to pick up the spilled material. Contain the spill. 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.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling..... Keep away from heat, sparks, and open flame. Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. Avoid breathing vapours or mist. 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. Handle and open container with care. Employees should wash hands and face before eating or drinking.

Conditions for safe storage, including any incompatibilities: Store in a cool and dry place, for product integrity. Keep away from heat, sparks, and open flames. Store away from oxidizing and reducing materials. Store away from sunlight. Keep container closed when not in use.

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: 500ppm (TWA); 750ppm (STEL)				
Ethyl Alcohol	1,000 ppm	Not established	1,000 ppm	Not established	1,000 ppm
	CA ON: 1,000 ppm (STEL)				
Butyl Alcohol	20 ppm	Not established	100 ppm	Not established	50 ppm skin
	CA ON: 20 ppm (TWA)				
Methanol	200 ppm	250 ppm skin	200 ppm	Not established	200 ppm / STEL 250 ppm
	CA ON: 200 ppm (TWA), 250 ppm (STEL)				
Phosphoric Acid	1 mg/m3	3 mg/m3	1 mg/m3	3 mg/m3	1 mg/m3
	CA ON: 1 mg/m3(TWA), 3 mg/m3(STEL)				
Ethyl Acetate	400 ppm	Not established	400 ppm	Not established	400 ppm
	CA ON: 400 ppm (TWA)				

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. Explosion-proof exhaust ventilation.

Personal Protective Equipment

Eye/type..... Chemical safety goggles. Chemical safety goggles and full faceshield if splash hazard exists.

Gloves/ type..... Wear skin protection equipment. The selection of skin protection equipment depends on the nature of the work to be performed. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. The following gloves are recommended :. Butyl rubber. Contact glove supplier for recommendations.

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. Consult CSA Z94.4-M1982.

Other/type..... Emergency showers and eye wash stations should be available. Employees should wash their hands and face before eating, drinking, or using tobacco products.

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state	Liquid.
Colour	Clear, colourless.
Odour	Pungent odour. Alcohol odour.
Odour threshold (ppm)	Not available.
pH	Not available.
Melting / Freezing point (deg C)	< 0 °C.
Initial boiling point / boiling range (deg C).	> 56 °C. (acetone).
Flash point (deg C), method	-18°C. (estimate; lowest flash point ingredient).
Evaporation rate	Not available.
Flammability (solids and gases)	Flammable liquid.
Upper flammable limit (% vol)	36.
Lower flammable limit (% vol)	1.5.
Vapour pressure (mm Hg)	Not available.
Vapour density (air=1)	Not available.
Relative Density (Specific Gravity)	0.815.
Pounds / USG	6.80.
Solubility	Soluble.
Partition coefficient — n-octanol/water	Not available.
Auto ignition temperature (deg C)	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
% Volatile by volume	21.33.
VOC (less water)	1.36 lbs/USG; 163 g/L.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Product is stable; hazardous polymerization will not occur.
Chemical stability	Stable at normal temperatures and pressures.
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid, including static discharge, shock or vibration	Avoid heat, spark, open flames. Electrostatic charge.
Incompatible materails	Strong oxidizing agents. Strong acids. Strong bases. Reducing agents. Acetone may ignite or react violently with strong oxidizing agents, such as chromic acid, chromium trioxide, chromyl chloride, hot nitric acid, potassium permanganate (in an alkaline medium), or peroxides. Metals. Florine. Sulphur trioxide.
Hazardous decomposition products	No hazardous decomposition products when stored and handled correctly. See hazardous combustion products section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Acetone	50,100 mg/m3 8 hours, rat	5,800 mg/kg (rat oral)
Ethyl Alcohol	20,000 ppm 10 hours rat	3,400 mg/kg oral mouse
Butyl Alcohol	8,000 ppm 4 hours	790 mg/kg rat oral 3,400 mg/kg rabbit dermal
Methanol	128.2 mg/L, 4h rat	420 mg/kg (oral); 5,628 mg/kg (rat oral); 15,800 mg/kg (rabbit dermal)
Phosphoric Acid	1.689 mg/L 1 hour rabbit	1,530 mg/kg rat oral 2,740 mg/kg rabbit dermal
Ethyl Acetate	16,000 ppm 6 hours rat	5,600 mg/kg (rat oral)

Acute Toxicity Estimate (ATE)	ATE mix (dermal):. 1734 mg/kg. ATE mix (oral): . >2200 mg/kg.
Route of exposure	Eye contact. Skin contact. Inhalation.
Symptoms related to the physical, chemical and toxicological characteristics	
Skin contact	Can cause chemical burns. Can cause moderate irritation, defatting and dermatitis.
Skin absorption	May be harmful if absorbed through the skin.
Eye contact	Can cause burns. 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. May be fatal or cause blindness if swallowed. 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.

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SECTION 11: TOXICOLOGICAL INFORMATION

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. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.
Reproductive effects.....	Methanol is teratogenic and embryotoxic in animals.
Carcinogenicity of material.....	Ethyl Alcohol is classified as an A3 known animal carcinogen and is listed by IARC in Group 1.
Specific Target Organ Toxicity	Causes damage to organs. May cause drowsiness or dizziness. May cause respiratory irritation.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity.....	Product data not available.
Persistence and degradability.....	Product data not available.
Bioaccumulative potential.....	Product data not available.
Mobility in soil.....	Product data not available.
Other adverse effects.....	Do not allow to enter waters, waste water or soil.

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.

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 49CRF 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. 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 either listed or exempt from the TSCA. .
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.....	Butyl alcohol. Methanol.
EPA hazardous air pollutants (HAPS) 40CFR63	Methanol.
California Proposition 65.....	*** ! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause birth defects or other reproductive harm. (Methanol). 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:.....	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

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SECTION 16: OTHER INFORMATION

Disclaimer:.....	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.
Date of the latest revision of the safety data sheet ..	2021-03-01