



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

**PRODUCT: PF 647C 2K QUICK DRY PRIMER GRAY 2.1 VOC**

### SECTION 01: IDENTIFICATION

Product identifier..... PF 647C 2K QUICK DRY PRIMER GRAY 2.1 VOC  
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 \*\*.  
Recommended use and restrictions on .. Paints.  
use  
Chemical family..... Mixture.  
Hazard rating  
NFPA rating..... Health: 2 Fire: 3 Reactivity: 0.  
HMIS..... H: 2 F: 3 R: 0.

### SECTION 02: HAZARD IDENTIFICATION



Signal Word..... DANGER.  
Hazard Classification..... Flammable Liquid 2. Acute Toxicity 4. Specific Target Organ Toxicity — Single Exposure  
— Category 3. Eye Irritant 2. Skin Irritation — Category 2.  
Hazard Description..... H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in  
contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H332  
Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or  
dizziness.  
Prevention..... P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking. P233  
Keep container tightly closed. P235 Keep cool. 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. P261 Avoid breathing  
mists, vapours and sprays. P271 Use only outdoors or in a well ventilated area. P280 Wear  
protective gloves and eye protection.

### SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Methyl N-Amyl Ketone	110-43-0	10-30
Acetone	67-64-1	7-13
Calcium Carbonate	1317-65-3	7-13
tert-Butyl acetate	540-88-5	7-13
Titanium Dioxide	13463-67-7	3-7
Methyl Isobutyl Ketone	108-10-1	1-5
n-Butyl Acetate	123-86-4	1-5
Xylene	1330-20-7	1-5
Styrene	100-42-5	1-5
Quartz	14808-60-7	0.1-1.0
Ethylbenzene	100-41-4	<0.1
Carbon Black	1333-86-4	< 0.1

**PRODUCT: PF 647C 2K QUICK DRY PRIMER GRAY 2.1 VOC****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.
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, CO <sub>2</sub> , dry chemical. During a fire, isocyanate vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Use cold water spray to cool exposed containers to minimize risk of rupture.
Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products .....	Oxides of carbon (CO, CO <sub>2</sub> ). Oxides of nitrogen.
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.

**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, state, 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**

Precautions for safe handling.....	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.
Conditions for safe storage, including any incompatibilities .....	Keep container closed when not in use. Store away from all sources of heat and ignition. Store away from oxidizing and reducing materials. Store away from sunlight.

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

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Methyl N-Amyl Ketone	50 ppm CA ON: 25 ppm; 115 mg/m <sup>3</sup> (TWA)	Not established	100 ppm	465 mg/m <sup>3</sup> TWA	Not established	Not established
Acetone	250 ppm TLV CA ON AB: 500ppm (TWA); 750ppm (STEL)	500 ppm	1,000 ppm	Not established	250 ppm	
Calcium Carbonate	Not established	Not established	5 mg/m <sup>3</sup>	Not established	5 mg/m <sup>3</sup>	
tert-Butyl acetate	200 ppm CA ON AB BC: 50ppm (TWA), 200ppm (STEL)	Not established	200 ppm	Not established	200 ppm	
Titanium Dioxide	10 mg/m <sup>3</sup> CA ON: 10 mg/m <sup>3</sup> (TWA)	Not established	15 mg/m <sup>3</sup>	Not established	Not established	Not established
Methyl Isobutyl Ketone	50 ppm	75 ppm	100 ppm	Not established	50 ppm / STEL 75 ppm	

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INGREDIENTS	ACGIH TLV		OSHA PEL		NIOSH
	TWA	STEL	PEL	STEL	
n-Butyl Acetate	ON: 20 ppm (TWA), 75 ppm (STEL) 50 ppm	150 ppm	150 ppm	200 ppm	150 ppm / STEL 200 ppm
Xylene	CA ON: 50ppm (TWA), 150ppm (STEL) 50 ppm	150 ppm	100 ppm TWA	Not established	Not established
Styrene	CA ON: 100ppm (TWA); 150ppm (STEL) 20 ppm	40 ppm	100 ppm	Not established	100 ppm
Quartz	CA ON: 35ppm (TWA), 100ppm (STEL) 0.025 mg/m3	Not Established	0.1 mg/m3 Respiratory	Not Established	0.05 mg/m3
Ethylbenzene	100 ppm	125 ppm	100 ppm	Not established	100 ppm / STEL 125 ppm
Carbon Black	CA ON: 20ppm (TWA) 3 mg/m3 CA ON: 3 mg/m3 (Inhalable) TWA	Not established	3.5 mg/m3	Not established	3.5 mg/m3

**Personal 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.
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.

## Exposure limits

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Physical state.....	Liquid.
Colour.....	Green.
Odour.....	Solvent odour.
Odour threshold (ppm).....	Not available.
Vapour pressure (mm Hg).....	Not available.
Vapour density (air=1).....	>1.
pH.....	Not applicable.
Relative Density (Specific Gravity).....	12.26 lb/usg - 1.4712.
Melting / Freezing point (deg C).....	Not available.
Solubility.....	Slightly soluble in water.
Initial boiling point / boiling range (deg C).....	98°C .
Evaporation rate.....	Moderate.
Flash point (deg C), method.....	-18°C (0°F) Closed Cup.
Auto ignition temperature (deg C).....	Not available.
Upper flammable limit (% vol).....	12.6.
Lower flammable limit (% vol).....	0.9.
Partition coefficient — n-octanol/water.....	Not available.
VOC (less water).....	242.06 g/L; 2.02 lbs/USG.
Viscosity.....	2100 cps Brookfield Spindle # 4 @ 20 rpm .

**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.
Conditions to avoid, including static discharge, shock or vibration .....	Keep away from heat. Incompatible with strong oxidizers.
Hazardous decomposition products.....	By fire:. Dense black smoke. Oxides of nitrogen. Oxides of carbon (CO,CO2).

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Possibility of hazardous reactions..... Hazardous polymerization will not occur.

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
Methyl N-Amyl Ketone	Not Available	1,670 mg/kg rat oral 12,600 mg/kg rabbit dermal
Acetone	50,100 mg/m3 8 hours, rat	5,800 mg/kg (rat oral)
Calcium Carbonate	Not available	6450 mg/kg rat oral
tert-Butyl acetate	>2,230 mg/m3 4 hours rat	4,100 mg/kg (rat, oral); >2,000 mg/kg (rabbit, dermal)
Titanium Dioxide	>6.8 mg/L (4 hr)	>10,000 mg/kg (rat, oral) >10,000 mg/kg (rabbit, dermal)
Methyl Isobutyl Ketone	8.2 - 16.4 mg/L 4 hours rat	2080 mg/kg (rat oral) >16,000 mg/kg (rabbit dermal)
n-Butyl Acetate	>33 mg/L vapour, 5.2 mg/L (rat) dust/mist	10760 mg/kg (rat, oral) 14112 mg/kg (rabbit, dermal)
Xylene	6350 ppm 4 hours rat	>3523 mg/kg rat oral
Styrene	2770 ppm 4 hr rat	5000 mg/kg (rat oral)
Quartz	Not Available	Not Available
Ethylbenzene	No data	3,500 mg/kg rat oral 17,800 mg/kg rabbit dermal
Carbon Black	Not available	>10,000 mg/kg (oral rat ) 3,000 mg/kg (dermal rabbit)

Route of exposure.....	Eye contact. Skin contact. Inhalation.
Effects of acute exposure.....	The aromatic hydrocarbon solvents in this product can be irritating to the eyes, nose and throat. In high concentration, they may cause central nervous system depression and narcosis characterized by nausea, lightheadedness and dizziness from overexposure by inhalation.
Effects of chronic exposure.....	Breathing high concentrations of vapour may cause anesthetic effects and serious health effects. Contains an ingredient which caused reproductive effects in rats after repeated application of large amounts to skin. These effects have not been reported in humans. 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.....	Chronic skin exposure to solvents may cause effects similar to those identified under chronic inhalation.
Eye contact.....	Can cause redness, irritation, tissue destruction.
Inhalation (acute).....	Solvent vapours may be irritating to the eyes, nose and throat, resulting in redness, burning and itching of eyes, dryness of the throat and tightness in the chest. Breathing of high vapour concentrations may cause anesthetic effects and serious health effects.
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. Excessive inhalation of vapours can cause respiratory irritation, dizziness, headache, nausea and asphyxiation.
Ingestion.....	Aspiration of material into lungs can cause chemical pneumonitis which can be fatal. May be harmful or fatal if swallowed.
Carcinogenicity of material.....	Methyl Isobutyl Ketone is possibly carcinogenic to humans (IARC Group 2B). IARC has classified Carbon Black as "Group 2B", possibly carcinogenic to humans, based on laboratory animal inhalation studies. Quartz (Crystalline Silica) is listed by IARC in Group 1 as a carcinogen. IARC has classified Titanium Dioxide as a group 2B carcinogen.
Reproductive effects.....	High level exposure to Xylene in some animal studies have been reported to cause health effects on the developing embryo/fetus. The relevance of this to humans is not known. Chronic exposure to Ethylbenzene has been associated with reproductive effects among women.

Toxicological Data

**PRODUCT: PF 647C 2K QUICK DRY PRIMER GRAY 2.1 VOC****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 . Empty containers must be handled with care due to product residue. 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 - Class 3 - Packing Group II - This product meets limited quantity exemption when shipped in containers less than 5 litres.  
 IATA Classification (Air)..... UN1263 - PAINT - Class 3 - Packing Group II.  
 IMDG Classification (Marine)..... UN1263 - PAINT - Class 3 - Packing Group II - EmS: F-E S-E.  
 Marine Pollutant..... No.

**SECTION 15: REGULATORY INFORMATION**

WHMIS 1988 classification..... B2, D2A, D2B.  
 CEPA status..... On Domestic Substances List (DSL).  
 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..... Ethylbenzene. Methyl Isobutyl Ketone. Styrene. Xylene.  
 EPA hazardous air pollutants (HAPS) 40CFR63 ..... Ethylbenzene. Xylene. Styrene. Methyl Isobutyl Ketone.  
 TSCA inventory status..... All components are listed.  
 California Proposition 65..... This product contains Carbon Black known to the State of California to cause cancer. This product contains Methyl Isobutyl Ketone (MIBK) known to the State of California to cause cancer and reproductive effects. California is in the process of listing Titanium Dioxide to Proposition 65 as a known carcinogen. This product contains Ethylbenzene that is known to the State of California to cause cancer.

**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.  
 Review Date:..... 2022-11-30.  
 Date of the latest revision of the safety data sheet .. 2016-01-19