



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

PRODUCT: PF 642 1K SELF ETCHING PRIMER BLACK 12 OZ AEROSOL

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 642 1K SELF ETCHING PRIMER BLACK 12 OZ AEROSOL

Recommended use and restrictions on .. Paints.
use

Chemical family..... Acrylic coating.

NFPA rating..... Health: 2 Fire: 4 Reactivity: 0.

HMIS..... H: 2 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..... DANGER.

Hazard Classification..... Flammable Aerosols — Category 1. Gases Under Pressure: Liquefied Gas. Eye Irritation — Category 2B. Specific Target Organ Toxicity — Single Exposure — Category 3. (narcotic effects). (respiratory system). Carcinogenicity — Category 2. Reproductive Toxicity — Category 2. Specific Target Organ Toxicity — Repeated Exposure — Category 1.

Hazard Description..... H222 Extremely flammable aerosol . H229 Pressurized container: may burst if heated. H280 Contains gas under pressure; may explode if heated. H320 Causes eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 This product contains ingredients that are suspected of causing cancer. H361 This product contains ingredients that are suspected of damaging fertility or the unborn child. H372 Causes 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. P211 Do not spray on an open flame or other ignition sources. P251 Do not pierce or burn container, even after use. 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 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. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell.

Storage..... P233 Keep container tightly closed. 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. %
Acetone	67-64-1	10-30
Isobutyl Acetate	110-19-0	10-30
Propane	74-98-6	10-30

PRODUCT: PF 642 1K SELF ETCHING PRIMER BLACK 12 OZ AEROSOL**SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

Isobutane	75-28-5	7-13
Methyl Isobutyl Ketone	108-10-1	5-10
Talc	14807-96-6	3-7
2-Propanol, 1-methoxy-, acetate	108-65-6	1-5
Ethyl 3-Ethoxypropionate	763-69-9	1-5
Carbon Black	1333-86-4	1-5
Toluene	108-88-3	0.1-1
Xylene	1330-20-7	0.1-1
Ethylbenzene	100-41-4	0.1-1
Crystalline Silica	14808-60-7	< 0.1
N-methyl pyrrolidone	872-50-4	<0.1

<<The actual concentration(s) withheld as a trade secret>>

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. Check for and remove any contact lenses, if safe and easy to do so. 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	Harmful if swallowed, in contact with skin or if inhaled. May cause mild skin irritation. May cause slight 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. This product contains ingredients that are suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.
Additional information.....	Treat victims symptomatically. The main hazard from ingestion is aspiration of the liquid into the lungs producing chemical pneumonitis. 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 ₂ , dry chemical. 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	Extremely flammable aerosol. Aerosol can will explode if heated. Thermal decomposition products are toxic. May include: Oxides of carbon (CO, CO ₂). Hydrocarbon fumes and smoke.
Special protective equipment and precautions for fire-fighters	Extremely flammable aerosol. 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

Personal precautions, protective equipment and emergency procedures	No action shall be taken involving any personal risk or without suitable training. 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. Use non-sparking tools and equipment to pick up the spilled material. Ventilate area, eliminate all sources of ignition, sound alarm, avoid all skin and eye contact and avoid breathing vapours.
Methods and materials for containment and cleaning up	

PRODUCT: PF 642 1K SELF ETCHING PRIMER BLACK 12 OZ AEROSOL**SECTION 06: ACCIDENTAL RELEASE MEASURES**

Leak/spill..... No action shall be taken involving any personal risk or without suitable training. Ventilate. Eliminate all sources of ignition. Evacuate all non-essential personnel. Avoid all personal contact. Contain the spill. Prevent runoff into drains, sewers, and other waterways. Absorb with earth, sand, or another dry inert material. Pick up waste material and place in an appropriate container for disposal. 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. 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. 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		PEL	OSHA PEL		REL	NIOSH
		STEL	STEL		STEL	STEL		
Acetone	250 ppm TLV	500 ppm		1,000 ppm	Not established		250 ppm	
Isobutyl Acetate	150 ppm	Not established		150 ppm	Not established		150 ppm	
Propane	1,000 ppm	Not established		1,000 ppm	Not established		1,000 ppm	
Isobutane	Not established	Not established		Not established	Not established		800 ppm	
Methyl Isobutyl Ketone	50 ppm	75 ppm		100 ppm	Not established		50 ppm / STEL 75 ppm	
Talc	2 mg/m3	Not established		2 mg/m3 TWA	3 mg/m3 - QUE		Not established	
2-Propanol, 1-methoxy-, acetate	50 ppm	75 ppm		Not established	Not established		Not established	
Ethyl 3-Ethoxypropionate	Not established	Not established		Not established	Not established		Not established	
Carbon Black	3.5 mg/m3	Not established		3.5 mg/m3	Not established		3.5 mg/m3	
Toluene	20 ppm	Not established		200 ppm	500 ppm 10 minutes		100 ppm / STEL 150 ppm	
Xylene	50 ppm	150 ppm		100 ppm TWA	Not established		Not established	
Ethylbenzene	100 ppm	125 ppm		100 ppm	Not established		100 ppm / STEL 125 ppm	
Crystalline Silica	0.025 mg/m3	Not established		0.1 mg/m3 TWA	Not established		0.05 mg/m3	
N-methyl pyrrolidone	Not Established	Not Established		Not Established	Not Established		Not Established	
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								
Respiratory/type.....	Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits.							
Eye/type.....	Liquid chemical goggles.							
Gloves/ type.....	Wear skin protection equipment. The selection of this equipment depends on the nature of the work to be done. The following gloves are recommended : Chemical resistant gloves: butyl rubber, nitrile rubber, neoprene, PVC. Ethyl vinyl alcohol laminate (EVAL). Insulated gloves. (for aerosols).							
Clothing/type.....	Wear adequate protective clothes.							
Footwear/type.....	Safety boots per local regulations.							

PRODUCT: PF 642 1K SELF ETCHING PRIMER BLACK 12 OZ AEROSOL**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

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.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state..... Aerosol.
 Colour..... Black.
 Odour..... No data.
 Odour threshold (ppm)..... Not available.
 pH..... Not applicable.
 Melting / Freezing point (deg C)..... Not Available.
 Initial boiling point / boiling range (deg C). > 100° C.
 Flash point (deg C), method..... -18°C. (estimate; lowest flash point ingredient). (acetone).
 Evaporation rate..... No data.
 Flammability (solids and gases)..... Flammable aerosol.
 Upper flammable limit (% vol)..... 9.5. (propellant).
 Lower flammable limit (% vol)..... 1.8. (propellant).
 Vapour pressure (mm Hg)..... No data.
 Vapour density (air=1)..... No data.
 Relative Density (Specific Gravity)..... 0.810 - 0.850.
 Pounds / USG..... 6.76 - 7.10.
 Solubility..... Insoluble.
 Coefficient of water/oil distribution..... Not available.
 Auto ignition temperature (deg C)..... 460 °C (propellant) .
 Decomposition temperature..... Not available.
 Viscosity..... Not Available.
 VOC..... 3.95 lbs/USG.

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..... Will not occur under normal temperature and pressure.
 Conditions to avoid, including static Keep away from heat. Electrostatic charge.
 discharge, shock or vibration
 Incompatible materials..... Strong oxidizing agents.
 Hazardous decomposition products..... See hazardous combustion products section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Acetone	50,100 mg/m3 8 hours rat inhalation	5,800 mg/kg rat oral
Isobutyl Acetate	>13.24 mg/L /6 h rat	15400 mg/kg (rat oral) > 17400 mg/kg (rabbit dermal)
Propane	>1,464 mg/L 15 minutes rat	Not available
Isobutane	52 mg/L 1 hour mouse	Not available
Methyl Isobutyl Ketone	8.2 - 16.4 mg/L 4 hours rat	2080 mg/kg rat oral >16,000 mg/kg rabbit dermal
Talc	Not available	Not available
2-Propanol, 1-methoxy-, acetate	Not Available	8,532 mg/kg rat oral 5,000 mg/kg dermal rabbit
Ethyl 3-Ethoxypropionate	>998 ppm 6 hours	4,309 mg/kg rat oral 4,080 mg/kg rabbit dermal
Carbon Black	Not available	>10,000 mg/kg oral rat 3,000 mg/kg dermal rabbit
Toluene	8000 ppm rat inhalation 400 ppm mouse inhalation 24hr	5,000 mg/kg rat oral; 12,124 mg/kg rabbit dermal
Xylene	6350 ppm 4 hours rat	>3523 mg/kg rat oral
Ethylbenzene	No data	3,500 mg/kg rat oral 17,800 mg/kg rabbit dermal
Crystalline Silica	Not available	>22,500 mg/kg oral rat

PRODUCT: PF 642 1K SELF ETCHING PRIMER BLACK 12 OZ AEROSOL**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
N-methyl pyrrolidone	No Data	3600 mg/kg (oral, rat)
Route of exposure.....	Eye contact. Skin contact. Inhalation.	
Effects of acute exposure.....	Causes eye irritation. Can cause tearing, reddening and swelling. May cause temporary corneal damage. 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. Can cause moderate skin irritation. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.	
Effects of chronic exposure.....	Breathing high concentrations of vapour may cause anesthetic effects and serious health effects. Chronic exposure to organic solvent vapours 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. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.	
Carcinogenicity of material.....	IARC has classified Carbon Black as "Group 2B", possibly carcinogenic to humans, based on laboratory animal inhalation studies. Ethylbenzene is classified as an A3 known animal carcinogen. Quartz (Crystalline Silica) is listed by IARC in Group 1 as a carcinogen. . IARC has classified Toluene as a Group 3 (Not classifiable as to its carcinogenicity to humans); ACGIH has classified Toluene as a Group A4 (Not classifiable as a human carcinogen). Xylene has been listed by IARC as a Group 3; not classifiable as to its carcinogenicity to humans.	
Reproductive effects.....	Reproductive toxicity (developmental): N-methyl pyrrolidone. In one study, Methyl Ethyl Ketone has been found to cause embryol toxicity in large concentrations. Methyl isobutyl ketone passes through the placental barrier. 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. 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.	
Specific Target Organ Toxicity	May cause drowsiness or dizziness. May cause respiratory irritation. Causes damage to organs.	

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	Dispose of waste in accordance with all applicable Federal, Provincial/State and local regulations. Contents under pressure. Do not puncture, incinerate or expose to heat, even when empty.
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SECTION 14: TRANSPORT INFORMATION

TDG Classification.....	UN1950 - AEROSOLS, flammable - Class 2.1 - This product meets limited quantity exemption when shipped in containers less than 1 Litre.
DOT Classification (Road).....	UN1950 - AEROSOLS, flammable - Class 2.1 - Ltd Qty (1 Liter/0.26 Gallons).
IATA Classification (Air).....	UN1950 - AEROSOLS, flammable - Class 2.1 - Limited Quantity. Do not ship by air without checking appropriate IATA regulations.
IMDG Classification (Marine).....	UN1950 - AEROSOLS - Class 2.1 - EmS: F-D, S-U - 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	None.
Section 311/312 - hazard categories.....	Immediate health, delayed health, fire hazard.
Section 313.....	Ethylbenzene. Methyl Isobutyl Ketone. Xylene.

PRODUCT: PF 642 1K SELF ETCHING PRIMER BLACK 12 OZ AEROSOL

SECTION 15: REGULATORY INFORMATION

EPA hazardous air pollutants (HAPS) Ethylbenzene. Methyl Isobutyl Ketone. Toluene. Xylene.
 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 birth defects or other reproductive harm. (N-methyl pyrrolidone (nmp)). (Toluene). *** ! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause cancer . (Carbon black - airborne, unbound particles of respirable size). (Ethyl benzene). (Silica, crystalline (airborne particles of respirable size). 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 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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 data sheet