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

PRODUCT: PF 658C 2K URETHANE PRIMER SURFACER - GRAY 2.1 VOC

SECTION 01: IDENTIFICATION

Product identifier.....	PF 658C 2K URETHANE PRIMER SURFACER - GRAY 2.1 VOC
Other means of identification	
Chemical family.....	Mixture.
Recommended use and restrictions on use ..	Automotive.
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 **.
NFPA rating.....	Health: 2 Fire: 4 Reactivity: 0.
HMIS.....	H: 2 F: 4 R: 0.

SECTION 02: HAZARD IDENTIFICATION

Signal Word.....	DANGER.
Hazard Classification.....	Flammable Liquid 2. Skin Irritation — Category 2. Eye Irritation — Category 2A. Specific Target Organ Toxicity — Single Exposure — Category 3. (narcotic effects). (respiratory system). Carcinogenicity — Category 1. Reproductive Toxicity — Category 2. Specific Target Organ Toxicity — Repeated Exposure — Category 1.
Hazard Description.....	H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H350 This product contains ingredients that may cause cancer. H361 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. 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. 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. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P308 + P313 If exposed or concerned, get medical advice/attention. 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	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. %
Talc	14807-96-6	15-40
tert-Butyl acetate	540-88-5	7-13
n-Butyl Acetate	123-86-4	7-13
4-Chlorobenzotrifluoride	98-56-6	5-10
Titanium Dioxide	13463-67-7	5-10
Xylene	1330-20-7	1-5
Ethylbenzene	100-41-4	0.5-1.5
Distillates (Petroleum) Hydrotreated Light	64742-47-8	0.5-1.5
Crystalline Silica	14808-60-7	0.1-1
<<The actual concentration(s) withheld as a trade secret>>	.	

SECTION 04: FIRST-AID MEASURES

Skin contact..... Immediately remove all contaminated clothing, flush skin with water for at least 15 minutes. Wash clothing before reuse. If irritation persists, seek medical attention. If irritation persists, seek medical attention.

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.

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. Causes skin and 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 are suspected of damaging fertility or the unborn child. This product contains ingredients that may cause cancer. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Immediate medical attention and special . treatment needed, if necessary — 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. 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 — Flammable. Thermal decomposition products are toxic. May include:. Oxides of carbon (CO, CO2). Hydrocarbons and traces of chlorine compounds. Under hot acidic conditions:. Isobutylene. Acetic acid.

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

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. Take precautions against static discharge. Equipment should be grounded.

Methods and materials for containment and cleaning up
Leak/spill..... Keep away from heat, sparks and flames. Ventilate. Eliminate all sources of ignition. Evacuate all non-essential personnel. Contain the spill. Avoid all personal contact. 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. Keep container closed when not in use. Store away from oxidizing and reducing materials. Store away from sunlight. Attacks some types of rubber, plastics and coatings.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	ACGIH TLV TWA	ACGIH TLV STEL	OSHA PEL PEL	OSHA PEL STEL	NIOSH REL
Talc	2 mg/m3	Not established	2 mg/m3 TWA	3 mg/m3 - QUE	Not established
tert-Butyl acetate	200 ppm	Not established	200 ppm	Not established	200 ppm
n-Butyl Acetate	50 ppm	150 ppm	150 ppm	200 ppm	150 ppm / STEL 200 ppm
4-Chlorobenzotrifluoride	Not established	Not established	Not established	Not established	Not established
Titanium Dioxide	10 mg/m3	Not established	15 mg/m3	Not established	Not established
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
Distillates (Petroleum) Hydrotreated Light	1200 mg/m3	197 ppm	Not established	Not established	Not established
Crystalline Silica	0.025 mg/m3	Not established	0.1 mg/m3 TWA	Not established	0.05 mg/m3
	ON OEL: 0.025 mg/m3 Respirable				

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

Gloves/ type..... Wear skin protection equipment. The selection of skin protection equipment depends on the nature of the work to be performed. Contact glove supplier for recommendations.

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

Respiratory/type..... Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits.

Clothing/type..... Wear adequate protective clothes.

Footwear/type..... Safety boots per local regulations.

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..... Liquid.
Colour..... Gray.
Odour..... Hydrocarbon odour.
Odour threshold (ppm)..... Not available.
pH..... Not applicable.
Melting / Freezing point (deg C)..... Not available.
Initial boiling point / boiling range (deg C). >95C.
Flash point (deg C), method..... 4. (estimate; lowest flash point ingredient).
Evaporation rate..... Not available.
Flammability (solids and gases)..... Not applicable. Flammable liquid.
Upper flammable limit (% vol)..... 11.6.
Lower flammable limit (% vol)..... 0.9.
Vapour pressure (mm Hg)..... Not available.
Vapour density (air=1)..... >1.
Relative Density (Specific Gravity)..... 1.442.
Pounds / USG..... 12.03.
Solubility..... Negligible.
Partition coefficient — n-octanol/water..... Not available.

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Auto ignition temperature (deg C).....	> 200°C.
Decomposition temperature.....	Not available.
Viscosity.....	1500 cPs. #4 @ 20 RPM.
% Volatile by volume.....	24.75.
VOC.....	2.57 lb/usg - 307.95 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.....	Will not occur under normal temperature and pressure.
Conditions to avoid, including static discharge, shock or vibration	Avoid heat, spark, open flames.
Incompatible materails.....	Strong oxidizing agents. Acids. Alkalies. Nitrates. Plastics.
Hazardous decomposition products.....	No hazardous decomposition products when stored and handled correctly. Thermal decomposition may produce acrid smoke and irritating fumes. See hazardous combustion products section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Talc	Not available	Not available
tert-Butyl acetate	>2,230 mg/m3 4 hours rat	4,100 mg/kg (rat, oral); >2,000 mg/kg (rabbit, dermal)
n-Butyl Acetate	390 ppm (4 hr.)	10768 mg/kg (rat oral) 17600 mg/kg (rabbit dermal)
4-Chlorobenzotrifluoride	4479 ppm	>6,800 mg/kg (rat oral); >2,700 mg/kg (rabbit dermal)
Titanium Dioxide	>6.8 mg/L (4 hr)	> 10,000 mg/kg (rat, oral) > 10,000 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
Distillates (Petroleum) Hydrotreated Light	>5.2 mg/L (4 hr.)	>5000 mg/kg (oral, rat) >2000 mg/kg (dermal, rabbit)
Crystalline Silica	Not available	>22,500 mg/kg oral rat

Route of exposure.....	Eye contact. Skin contact. Inhalation.
Symptoms related to the physical, chemical and toxicological characteristics	
Effects of acute exposure.....	Causes skin irritation. Causes serious eye irritation. Can cause redness and irritation. Causes respiratory tract irritation. 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. Inhalation of high vapour may cause central nervous system effects, dizziness, headache, nausea, or loss of coordination.
Effects of chronic exposure.....	Breathing high concentrations of vapour may cause anesthetic effects and serious health effects. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal . Prolonged or repeated skin contact may cause drying or cracking of skin.
Carcinogenicity of material.....	This product contains non-asbestiform Talc, which is classified as a Group 3 (not classifiable as to carcinogenicity to humans) by IARC . Ethylbenzene is classified as an A3 known animal carcinogen. IARC has classified Titanium Dioxide as a group 2B carcinogen. Quartz (Crystalline Silica) is listed by IARC in Group 1 as a carcinogen. .
Mutagenicity.....	Ethylbenzene has been shown to be mutagenic for mammalian somatic cells.
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.
Specific Target Organ Toxicity	May cause drowsiness or dizziness. May cause respiratory irritation.

SECTION 12: ECOLOGICAL INFORMATION

Environmental.....	No product data. Do not allow to enter waters, waste water or soil.

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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. Empty containers must be handled with care due to product residue.

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.
DOT Classification (Road)	UN1263 - PAINT - Class 3 - Packing Group II - Ltd Qty (1 Liter). Refer to 49CRF 172.101 for additional non-bulk packaging requirements.
IATA Classification (Air)	UN1263 - PAINT - Class 3 - Packing Group II. Limited Quantity. Do not ship by air without checking appropriate IATA regulations.
IMDG Classification (Marine)	UN1263 - PAINT - 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	Contains ingredient(s) not on the 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	Ethylbenzene. Xylene.
EPA hazardous air pollutants (HAPS) 40CFR63	Ethylbenzene. Xylene.
California Proposition 65	*** ! 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). (Talc, not containing asbestiform fibers). (Titanium dioxide - airborne, unbound 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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