



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

PRODUCT: PF 678C UNIVERSAL URETHANE CLEARCOAT 2.1 VOC

SECTION 01: Chemical product and company identification

Manufactured for..... Pro Form Products Ltd.
604 McGeachie Drive
Milton, Ontario L9T3Y5
Tel (905) 878-4990 Fax (905) 878-1189

Product name..... PF 678C UNIVERSAL URETHANE CLEARCOAT 2.1 VOC

Recommended use and restrictions on use.. Paints. This product should not be used for any other purpose other than the ones described in this section.

Chemical family..... Polyester.

NFPA rating..... Health: 2 Fire: 3 Reactivity: 0.

HMIS..... H: 2 F: 3 R: 0.

24 hour emergency number:..... IN THE UNITED STATES CALL INFOTRAC (800) 535-5053.

SECTION 02: Hazards identification



Signal Word..... DANGER.

Hazard Classification..... Flammable Liquid 2. Skin Irritant 2. Skin Sensitizer 1A. Eye Irritant 2. Acute Toxicity 4. Reproductive 2.

Hazard Description..... H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H361 This product contains ingredients that are suspected of damaging fertility or the unborn child.

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. P280 Wear protective gloves and eye protection. P264 Wash thoroughly after handling. P261 Avoid breathing mists, vapours and sprays. P272 Contaminated work clothing should not be allowed out of the workplace. P271 Use only outdoors or in a well ventilated area.

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. P333 + P313 If skin irritation or rash occurs, get medical advice/attention. 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. P308 + P313 If exposed or concerned, get medical advice/attention. P321 - For specific treatment see section 4 on this SDS.

Storage..... 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.

SECTION 03: Composition/Information on Ingredients

HAZARDOUS INGREDIENTS	CAS #	WT. %
Propylene Glycol Monomethyl Ether Acetate	108-65-6	35-40
N-Butyl Acetate	123-86-4	10-20
Acetone	67-64-1	10-15
tert-Butyl acetate	540-88-5	10-15

PRODUCT: PF 678C UNIVERSAL URETHANE CLEARCOAT 2.1 VOC**SECTION 03: Composition/Information on Ingredients**

4-Chlorobenzotrifluoride	98-56-6	7-13
Methyl N-Amyl Ketone	110-43-0	2-5
Xylene	1330-20-7	<0.5
Bis (1,2,2,6,6-Pentamethyl-4-Piperidyl) Sebacate	41556-26-7	<0.2

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, CO2, dry chemical.
Hazardous combustion products.....	Oxides of carbon (CO, CO2).
Special fire fighting procedures.....	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

Handling procedures.....	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.
Storage needs.....	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.

SECTION 08: Exposure controls / personal protection

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Propylene Glycol Monomethyl Ether Acetate	Not established	Not established	Not established	Not established	Not established	Not established
N-Butyl Acetate	150 ppm	200 ppm	150 ppm	200 ppm	150 ppm / STEL 200 ppm	
Acetone	500 ppm	750 ppm	1,000 ppm	Not established	250 ppm	
tert-Butyl acetate	200 ppm	Not established	200 ppm	Not established	200 ppm	
4-Chlorobenzotrifluoride	Not established	Not established	Not established	Not established	Not established	Not established

PRODUCT: PF 678C UNIVERSAL URETHANE CLEARCOAT 2.1 VOC**SECTION 08: Exposure controls / personal protection**

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Methyl N-Amyl Ketone	50 ppm	Not established	100 ppm	465 mg/m3 TWA	Not established
Xylene	50 ppm	150 ppm	100 ppm TWA	Not established	Not established
Bis (1,2,2,6,6-Pentamethyl-4- Piperidyl) Sebacate	Not established	Not established	Not established	Not established	Not established
Protective equipment	Liquid chemical goggles.				
Eye/type.....	Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits.				
Respiratory/type.....	Chemical resistant gloves.				
Gloves/ type.....	Wear adequate protective clothes.				
Clothing/type.....	Safety boots per local regulations.				
Footwear/type.....	Emergency showers and eye wash stations should be available.				
Other/type.....	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. .				
Appropriate engineering controls.....					

SECTION 09: Physical and chemical properties

Physical state.....	Liquid.
Odour.....	Ketone odour.
Odour threshold (ppm).....	Not available.
Vapour pressure (mm Hg).....	Not available.
Vapour density (air=1).....	>1.
pH.....	Not applicable.
Relative Density (Specific Gravity).....	8.259 lb/usg - 0.990 g/mL.
Melting / Freezing point (deg C).....	-40°C.
Solubility.....	Slightly soluble in water.
Initial boiling point / boiling range (deg C).....	56°C.
Evaporation rate.....	Moderate.
Flash point (deg C), method.....	-18°C. (estimated).
Auto ignition temperature (deg C).....	272°C .
Upper flammable limit (% vol).....	13.
Lower flammable limit (% vol).....	0.9.
Coefficient of water/oil distribution.....	Not available.
VOC.....	2.03 lb/usg - 243.25 g/L.
Viscosity.....	14.5 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.
Conditions to avoid.....	Keep away from heat. Incompatible with strong oxidizers.
Hazardous decomposition products.....	Oxides of carbon (CO,CO2).
Possibility of hazardous reactions.....	Will not occur under normal temperature and pressure.

SECTION 11: Toxicological information

INGREDIENTS	LC50	LD50
Propylene Glycol Monomethyl Ether Acetate	Not Available	8,532 mg/kg (rat oral) >5,000 mg/kg (rabbit dermal)
N-Butyl Acetate	>29.2 mg/L 4 hour rat aerosol 4 hour rat	>3200 mg/kg rat oral >5000 mg/kg rabbit dermal
Acetone	50,100 mg/m3 8 hours rat inhalation	5,800 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

PRODUCT: PF 678C UNIVERSAL URETHANE CLEARCOAT 2.1 VOC**SECTION 11: Toxicological information**

INGREDIENTS	LC50	LD50
4-Chlorobenzotrifluoride	4479 ppm	>6,800 mg/kg rat oral; >2,700 mg/kg rabbit dermal
Methyl N-Amyl Ketone	Not Available	1,670 mg/kg rat oral 12,600 mg/kg rabbit dermal
Xylene	6350 ppm 4 hours rat	>3523 mg/kg rat oral
Bis (1,2,2,6,6-Pentamethyl-4-Piperidyl) Sebacate	Not Available	2369-3920 mg/kg oral rat >2000 mg/kg dermal rabbit
Route of entry	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. Causes skin irritation.	
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 result in dry, defatted and cracked skin, causing increased susceptibility to infection.	
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.....	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a 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.	

SECTION 12: Ecological information

Environmental..... Do not allow to enter waters, waste water or soil.

SECTION 13: Disposal considerations

Waste disposal..... 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.

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 (5 Liters/1.3 Gallons).
 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..... Potential marine pollutant.
 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..... Not determined.
 OSHA..... This product is considered hazardous under the OSHA Hazard Communication Standard.
 SARA Title III
 Section 302 - extremely hazardous None.
 substances

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SECTION 15: Regulatory information

Section 311/312 - hazard categories..... Immediate health, delayed health, fire hazard.
 Section 313..... tert-Butyl alcohol. Toluene. Xylene.
 EPA hazardous air pollutants (HAPS) Toluene. Xylene.
 40CFR63
 California Proposition 65..... *WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. (Toluene).

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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