



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

PRODUCT: PF 679C URETHANE CLEARCOAT ACTIVATOR MEDIUM
SECTION 01: Chemical product and company identification

Product name..... PF 679C URETHANE CLEARCOAT ACTIVATOR MEDIUM
 Manufactured for..... Pro Form Products Ltd.
 604 McGeachie Drive
 Milton, Ontario L9T3Y5
 Tel (905) 878-4990 Fax (905) 878-1189
 24 hour emergency number:..... IN CANADA CALL CANUTEC 1-888-226-8832 (CAN-UTEC) - IN THE UNITED STATES
 CALL CHEMTREC 1-800-424-9300.
 Material use..... Paints. Accelerator and activator. For industrial use only - keep out of reach of children.
 Chemical family..... Mixture.
 Preparation date..... April 11, 2016.
 Hazard rate
 NFPA rating..... Health: 2 Fire: 3 Reactivity: 1.
 HMIS..... H: 2 F: 3 R: 1.

SECTION 02: Hazards identification


Signal Word..... DANGER.
 Hazard Classification..... Flammable Liquid 2. Skin Sensitizer 1.
 Hazard Description..... H225 Highly flammable liquid and vapour. H317 May cause an allergic skin reaction.
 Precautionary Statements..... 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. P261 Avoid breathing mists, vapours and
 sprays. P272 Contaminated work clothing should not be allowed out of the workplace.
 Response P280 Wear protective gloves and eye protection.
 P302 + P352 - If on skin: wash with plenty of water. . P303 + P361 + P353 If on skin or in
 hair: take off all contaminated clothing immediately. Rinse thoroughly with water and use
 safety shower . P321 - For specific treatment see section 4 on this SDS. P333 + P313 If
 skin irritation or rash occurs, get medical advice/attention. P362 + P364 - Take off
 contaminated clothing and wash before reuse. P370 + P378 In case of fire - use dry
 chemical powder, CO2 or foam to extinguish.
 Storage..... P403 + P235 Store in well ventilated area. Keep cool.
 Disposal..... P501 Dispose all unused, waste or empty containers in accordance with local regulations.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Homopolymer of HDI	28182-81-2	45-55
Homopolymer of IPDI	53880-05-0	1-15
Acetic Acid, Tert-Butyl Ester	540-88-5	5-10
N-Butyl Acetate	123-86-4	1-10

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..... If irritation persists, seek medical attention. Immediately flush skin with plenty of soap and
 water. Remove contaminated clothing. Wash clothing before reuse.
 Inhalation..... If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is
 difficult, give oxygen, obtain medical attention.

PRODUCT: PF 679C URETHANE CLEARCOAT ACTIVATOR MEDIUM**SECTION 04: First aid measures**

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. Rinse mouth with water. Do not induce vomiting.

Additional information..... 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

Extinguishing media..... Dry chemical. Carbon dioxide. Foam. In cases of larger fires, water spray should be used.

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.

Unusual fire / explosion hazards..... Vapours may be heavier than air. May travel long distances along the ground before igniting and flashing back to vapour source.

Hazardous combustion products..... Oxides of carbon (CO, CO₂). Oxides of nitrogen. Smoke. Hydrogen cyanide. Isocyanates. Other potentially toxic fumes.

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%).

Clean up..... Decontaminate floor with decontamination solution, letting stand for at least 15 minutes.

SECTION 07: Handling and storage

Handling procedures..... Do not breathe vapours, mist or dust. Use adequate ventilation. Wear respiratory protection if material is heated, sprayed, used in confined space, or if exposure limit is exceeded. Avoid skin and eye contact.

Storage needs..... Store in tightly closed containers to prevent moisture contamination. Keep away from heat, sparks, and open flames. Do not reseal if contamination is suspected.

SECTION 08: Exposure controls / personal protection

INGREDIENTS	ACGIH TLV		OSHA PEL		NIOSH
	TWA	STEL	PEL	STEL	
Homopolymer of HDI	5 mg/m ³	Not established	5 mg/m ³	Not established	5 mg/m ³
Homopolymer of IPDI	Not established	Not established	Not established	Not established	Not established
Acetic Acid, Tert-Butyl Ester	200 ppm	Not established	200 ppm	Not established	200 ppm
N-Butyl Acetate	150 ppm	200 ppm	150 ppm	200 ppm	150 ppm / STEL 200 ppm
Eye/type.....	Liquid chemical goggles. Contact lenses should not be worn when working with this chemical.				
Respiratory/type.....	Whenever concentrations of isocyanates exceed the exposure limit or are not known, respiratory protection must be worn. A positive pressure, supplied-air respirator or a self-contained breathing apparatus is recommended. At least an air-purifying respirator equipped with an organic vapour cartridge and particulate pre-filters must be worn. However, this should be permitted only for short periods of time (< 1 hour) at relatively low concentrations (at or near the exposure limit). The use of a positive pressure air supplied respirator is mandatory when airborne concentrations are not known or airborne solvent levels are 10 times the appropriate exposure limit or spraying is performed in a confined space or with limited ventilation. Do not exceed the use limits of the respirator.				
Gloves/ type.....	Chemical resistant gloves. Butyl rubber. Neoprene. Nitrile rubber. Practice good hygiene, wash thoroughly before handling any food.				
Clothing/type.....	Wear adequate protective clothes. Wear impervious protective clothing.				
Footwear/type.....	Safety boots per local regulations.				
Other/type.....	Emergency showers and eye wash stations should be available.				

PRODUCT: PF 679C URETHANE CLEARCOAT ACTIVATOR MEDIUM**SECTION 08: Exposure controls / personal protection**

Ventilation requirements..... 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. .

SECTION 09: Physical and chemical properties

Physical state..... Liquid.
 Colour..... Light yellow.
 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)..... 8.78 lb/usg - 1.054.
 Freezing point (deg C)..... -40°C.
 Solubility..... Slightly soluble in water.
 Boiling point (deg C)..... 97°C.
 Evaporation rate..... Moderate.
 Flash point (deg C), method..... 4.4 Closed Cup.
 Auto ignition temperature (deg C)..... Not Available.
 Upper flammable limit (% vol)..... 10.8.
 Lower flammable limit (% vol)..... 0.9.
 Coefficient of water/oil distribution..... Not Available.
 Decomposition temperature..... Not Available.
 % Volatile by volume..... 32.8.
 VOC..... 221.7 g/l - 1.85 lb/usg.

SECTION 10: Stability and reactivity

Stability..... Stable at normal temperatures and pressures.
 Reactivity conditions..... Avoid heat, sparks and flames. Explosive reactions can occur in the presence of strong oxidizing agents.
 Incompatibility..... Water, amines, strong bases, alcohols. Copper alloys.
 Hazardous products of decomposition..... See hazardous combustion products.
 Hazardous polymerization..... Contact with moisture or other materials that react with isocyanates may cause polymerization.

SECTION 11: Toxicological information

INGREDIENTS	LC50	LD50
Homopolymer of HDI	390-453 mg/m ³ rat 4 hours	> 5,000 mg/kg rat oral; > 5,000 mg/kg rabbit dermal
Homopolymer of IPDI	Not Available	Not Available
Acetic Acid, Tert-Butyl Ester	>2,230 mg/m ³ 4 hours rat	4,100 mg/kg rat oral >2,000 mg/kg rabbit dermal
N-Butyl Acetate	>29.2 mg/L 4 hour rat >23.4 mg/L aerosol 4 hour rat	>3200 mg/kg rat oral >5000 mg/kg rabbit dermal
Route of entry	Eye contact. Skin contact. Inhalation.	
Effects of acute exposure.....	May aggravate previous respiratory impairments and/or pre-existing skin disorders.	
Effects of chronic exposure.....	A substance in this product may cause skin sensitization after prolonged or repeated contact.	
Carcinogenicity of material.....	The components of this product are not listed by IARC, NTP or regulated as a carcinogen by OSHA.	
Reproductive effects.....	No known reproductive effects.	

SECTION 12: Ecological information

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

PRODUCT: PF 679C URETHANE CLEARCOAT ACTIVATOR MEDIUM**SECTION 13: Disposal considerations**

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

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.
 IATA Classification (Air)..... UN1263 - Paint Related Material - Class 3 - Packing Group II.
 IMDG Classification (Marine)..... UN1263 - Paint Related Material - Class 3 - Packing Group II - EmS: F-E S-E.
 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 Isophorone Diisocyanate TPQ 100.
 substances
 Section 311/312 - hazard categories..... Immediate health, delayed health, fire hazard.
 Section 313..... N-Butyl Acetate. Tert-butyl acetate.
 EPA hazardous air pollutants (HAPS) None.
 40CFR63
 California Proposition 65..... None.

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.
 Preparation date: APR 13/2016