

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

# PRODUCT: PF 483 FAST ACTIVATOR FOR PF 480

#### **SECTION 01: IDENTIFICATION**

Product identifier..... PF 483 FAST ACTIVATOR FOR PF 480 Other means of identification 

Initial supplier identifier.....

NFPA rating..... HMIS..... 24 hour emergency number:.....

Aliphatic polyisocyanate. Solvent blend. Paints. Accelerator and activator.

Pro Form Products Ltd. 604 McGeachie Drive

Milton, Ontario L9T3Y5 Tel (905) 878-4990 Fax (905) 878-1189

Health: 2 Fire: 4 Reactivity: 1.

H: 2 F:4 R: 1.
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 Hazard Classification	Flammable Liquid 2. Skin Irritation — Category 2. Skin Sensitizer — Category 1. Eye Irritation — Category 2A. Acute Toxicity (Inhalation) — Category 4. Specific Target Organ
Hazard Description	allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335
Prevention	May cause respiratory irritation. H336 May cause drowsiness or dizziness. 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. P264 Wash thoroughly after handling. P271 Use only outdoors or in a well ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. 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. 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.
Storage	
Disposal Note	

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS			
CHEMICAL NAME AND SYNONYMS	CAS#	WT. %	
4-Chlorobenzotrifluoride	98-56-6	30-60	
Homopolymer of HDI	28182-81-2	15-40	
Acetic acid, methyl ester	79-20-9	10-30	
Butyl Acetate	123-86-4	0.1-1	

### **SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

<<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.
Skin contact	Consult a physician if irritation continues.  Immediately remove all contaminated clothing; flush skin with water for at least 15 minutes.  Wash clothing before reuse. 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	Rinse mouth with water. Give 1 to 2 glasses of water to drink. 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. The main hazard from ingestion is aspiration of the liquid into the lungs.
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. Can cause skin sensitization. May cause respiratory irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
Additional information	Treat victims symptomatically. Eye: stain for evidence of corneal injury. If cornea is
	burned, instill antibiotic steroid preparation frequently. Workplace vapours have produced reversible corneal epithelial edema impairing vision. Skin: this compound is a known skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burns. If burned, treat as thermal burn. Ingestion: treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of this compound. In all cases, if
	irritation persists seek medical attention. In the event of an incident involving this product ensure that medical authorities are provided a copy of this safety data sheet. Contains a respiratory sensitizer @ <0.1%.

#### **SECTION 05: FIRE-FIGHTING MEASURES**

Suitable and unsuitable extinguishing ..... media

Specific hazards arising from the ..... hazardous product, such as the nature of any hazardous combustion products Special protective equipment and ..... precautions for fire-fighters

Dry chemical. Carbon dioxide. Foam. In cases of larger fires, water spray should be used. Do not use water in a jet.

Flammable liquid. Thermal decomposition products are toxic. May include:. Oxides of carbon (CO, CO2). Oxides of nitrogen. Hydrogen cyanide. Isocyanates. Isocyanic acid. Dense black smoke. Other potentially toxic fumes.

Keep away from heat, sparks and flame. 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	Isolate area and keep unauthorized people away. Do not walk through spilled material
equipment and emergency procedures	Wear recommended protective equipment. Ventilate. Open windows and doors to allo
	air circulation. Dike area to prevent spreading. The use of absorbent socks or spill pillo
	may be required. Stop leak if safe to do so. Prevent runoff into drains, sewers, and ot
	waterways. He are aparting tools and equipment to pick up the spilled material

Methods and materials for containment and cleaning up Major spills.....

Minor spills.....

Clean up.....

ow ows waterways. Use non-sparking tools and equipment to pick up the spilled material.

If temporary control of isocyanate vapour is required, a blanket of protein foam may be placed over spill. If transportation spill occurs in United States, call Chemtrec 1-800-424-9300. If transportation spill occurs in Canada, call Canutec at (613) 996-6666. Large quantities may be pumped into closed, but not sealed, containers for disposal. Cover spill area with suitable absorbent material (e.g., sand, earth, sawdust, vermiculite, Oil-Dri, Kitty Litter, etc.). Saturate absorbent material with neutralizing solution. Recommended portion is ten parts neutralizing solution to one part spilled material. Suggested neutralization solution: 90% water + 5% concentrated ammonia + 5% detergent (dish soap). Add an additional layer of absorbent material. Use shovel to move absorbent material around to ensure that all spilled material comes in contact with the neutralizing solution. Shovel all absorbed material, including absorbent socks or spill pillows, into an appropriate salvage drum. Add further amounts of neutralizing solution. Allow to stand (covered loosely) for 48 to 72 hours, to allow any gases to escape.

Decontaminate spill area with decontamination solution. Area can then be washed with soap and water. Spilled material and water rinses are classified as chemical waste, and

must be disposed of in accordance with current local, provincial, state, and federal

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regulations.

### **SECTION 07: HANDLING AND STORAGE**

Precautions for safe handling...... Keep away

Keep away from heat, sparks, and open flame. Ground handling equipment. Always adopt precautionary measures against build-up of static which may arise from appliances, handling and the containers in which product is packed. Avoid skin and eye contact. Avoid breathing vapours or mist. Use adequate ventilation. Wear respiratory protection if material is heated, sprayed, used in confined space, or if exposure limit is exceeded. Keep container closed when not in use. Handle and open container with care. Employees should wash hands and face before eating or dripking

Conditions for safe storage, including any incompatibilities

wash hands and face before eating or drinking.
Store in a cool, dry and well ventilated area. Store in tightly closed containers to prevent moisture contamination. Keep away from heat, sparks, and open flames. Avoid: Water, Amines, Strong bases, Alcohols, Copper alloys. Do not store above 40 deg c.

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

INGREDIENTS	TWA	CGIH TLV STEL	OSH. PEL	A PEL STEL	NIOSH REL
4-Chlorobenzotrifluoride	Not established	Not established	Not established	Not established	Not established
Homopolymer of HDI	5 mg/m3	Not established	5 mg/m3	Not established	5 mg/m3
	Supplier: 0.5 mg/	m3 (TWA)			
Acetic acid, methyl ester	200 ppm	Not established	200 ppm	Not established	Not established
	CA ON: 200ppm	(TWA), 250ppm (STEV-C	C)		
Butyl Acetate	150 ppm	200 ppm	150 ppm	200 ppm vacated	150 ppm - STEL 200 ppm
	CA ON: 50ppm (	TWA), 150 ppm (STEL)			
Appropriate engineering	g controls	Provide natural or mech exposure limits. Local m contamination, such as gases and fumes that m ventilation (ie. ACGIH in adequate ventilation. Ex	echanical exhaust vent open process equipmer ay be emitted. Standar dustrial ventilation) sho	illation should be used a nt, or during purging op d reference sources reg old be consulted for gu	at sources of air erations, to capture parding industrial
Eye/type		Chemical safety goggles	s. Chemical safety gogg	gles and full faceshield i	f a splash hazard
Gloves/ type		exists. Wear skin protection equithe nature of the work to Practice good hygiene, we have a second exist.	be performed. Contac	ct glove supplier for reco	ment depends on ommendations.
Clothing/type		Wear adequate protective			orevent dermal
Footwear/typeRespiratory/type		exposure. Safety boots per local re Whenever concentration respiratory protection me exceed the use limits of respirator is mandatory levels are 10 times the a space or with limited ver	is of isocyanates excee ust be worn. Use NIOS the respirator. The use when airborne concent appropriate exposure lir	H approved respirator of a positive pressure a rations are not known o	or equipment. Do not air supplied r airborne solvent
Other/type		Eye wash facility and en	nergency shower shoul	d be in close proximity.	Employees should
Monitoring		wash their hands and fa Exposure levels must be TLV is not exceeded.	ce before eating, drinki e monitored by accepte	ng, or using tobacco pro d monitoring techniques	oducts. s to ensure that the
Medical surveillance		Medical supervision of a recommended. These swith pulmonary function conditions, chronic bron or sensitization should be diagnosed as sensitized with asthmatic-type conceurrant skin eczema of the open of the op	should include preemplotest (FEC, FVC as a mochitis, other chronic respective excluded from working to an isocyanate, no fuditions, chronic bronching sensitization should be	oyment and periodic me inimum). Persons with piratory diseases or recog with isocyanates. Or urther exposure can be tis, other chronic respirate excluded from workin	edical examinations asthmatic-type curring skin eczema nce a person is permitted. Persons atory diseases or g with isocyanates.

# **SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Physical stateColour	Liquid.
Odour	Characteristic odour. Aromatic.
Odour threshold (ppm)pH	
Melting / Freezing point (deg C)	



### **SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Initial boiling point / boiling range (deg C). >35 C Flash point (deg C), method..... -15.6°C. (estimate; lowest flash point ingredient). Not available. Not applicable. Flammable liquid. Upper flammable limit (% vol)..... 0.9. < . 179.5 mmHg @ 20°C. Not available. Vapour density (air=1)..... Relative Density (Specific Gravity)..... 1.192. Pounds / USG..... 9.95. Solubility..... Reacts slowly with water to liberate CO2 gas. Partition coefficient — n-octanol/water..... Not available. Auto ignition temperature (deg C)..... Not available. Decomposition temperature..... Not available. 14 sec Zahn #2. 0.14 lbs/USG; 16.78 g/L.

# **SECTION 10: STABILITY AND REACTIVITY**

Reactivity ..... Contact with moisture, other materials that react with isocyanates, or temperatures above 177 C, may cause polymerization. Chemical stability..... Stable at normal temperatures and pressures. Possibility of hazardous reactions..... Contact with moisture, other materials that react with isocyanates, or temperatures above 177C, may cause polymerization. Conditions to avoid, including static ........ Avoid heat, spark, open flames. Electrostatic charge. discharge, shock or vibration Water, Amines, Strong bases, Alcohols, Copper alloys. Strong oxidizing agents. Incompatible materails..... No hazardous decomposition products when stored and handled correctly. See Hazardous decomposition products...... hazardous combustion products section 5.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS		LC50	LD50	
4-Chlorobenzotrifluoride		4479 ppm	>6,800 mg/kg (rat oral); >2,700 mg/kg (rabbit dermal)	
Homopolymer of HDI		390-453 mg/m3 rat 4 hours	> 5,000 mg/kg (rat, oral); > 5,000 mg/kg (rabbit, dermal)	
Acetic acid, methyl ester		16000 ppm ( Rat ) 4 h	LD50 5001 mg/kg oral rat LD50 5001 mg/kg dermal rabbit	
Butyl Acetate		390 ppm (4 hr)	10768 mg/kg oral rat 17600 mg/kg dermal rabbit	
Route of exposure Symptoms related to the physical, chemica and toxicological characteristics		t. Inhalation. Skin absorption.		
Effects of acute exposure	Hazardous in contact with skin, by ingestion, and by inhalation. Irritating to eyes, skin and respiratory system. May be harmful if absorbed through the skin. Breathing of high vapour concentrations may cause anesthetic effects and serious health effects.			
Effects of chronic exposure	Reports have associated repeated or prolonged overexposure to solvents with permanent brain and nervous system damage. Prolonged vapour contact may cause conjunctivitis. As a result of previous repeated overexposure or a single large dose, certain individuals develop sensitization which will cause them to react to a later exposure to product at levels well below the exposure limit. Sensitization can be permanent.			
Skin absorption Sensitizing capability of material				
Carcinogenicity of material	. No component of this product present at levels greater than or equal to 0.1% is identified			
Reproductive effects Mutagenicity Specific Target Organ Toxicity	The data does not allow for an adequate assessment of the mutagenic effect.			

# **SECTION 12: ECOLOGICAL INFORMATION**

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

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

Information on safe handling for disposal. and methods of disposal, including any contaminated packaging

CEPA status.....

EPA hazardous air pollutants (HAPS) ......

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 RELATED MATERIAL - Class 3 - Packing Group II - This product meets the Limited Quantity exemption when packaged in containers less than 5 liters. UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - Ltd Qty (1 litre). DOT Classification (Road)..... Refer to 49CRF 172.101 for additional non-bulk packaging requirements. UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II. Limited Quantity. Do not ship by air without checking appropriate IATA regulations.

UN1263 - PAINT - Class 3 - Packing Group II - EmS: F-E S-E. Limited Quantity. Check IATA Classification (Air)..... IMDG Classification (Marine)..... IMDG regulations for limited quantity exemptions. Marine Pollutant.....Proof of Classification..... No. 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**

On Domestic Substances List (DSL).

TSCA inventory status..... All components are listed. This product is considered hazardous under the OSHA Hazard Communication Standard. ..... SARA Title III Section 302 - extremely hazardous ....... None. substances Section 311/312 - hazard categories....... Immediate health, delayed health, fire hazard. Section 313..... None above De minimus % limit. Hexamethylene diisocyanate.

California Proposition 65..... This product does not contain any chemical(s) known to the State of California to cause For more information, go to www.P65Warnings.ca.gov. cancer or reproductive toxicity.

### **SECTION 16: OTHER INFORMATION**

REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com. (800) 387-7981. Prepared by: ......Telephone number:..... 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.

Date of the latest revision of the safety ...

data sheet

40CFR63

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