PRO

SAFETY DATA SHEET

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

PRODUCT: PF 698C MEDIUM ACTIVATOR FOR PF 697C

FORM

SECTION 01: IDENTIFICATION

Product identifier Other means of identification	PF 698C MEDIUM ACTIVATOR FOR PF 697C
Chemical family Recommended use and restrictions on use	Mixture. Paints. Accelerator and activator.
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	
HMIS	

SECTION 02: HAZARD IDENTIFICATION



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 Toxicity — Single Exposure — Category 3. (respiratory system). (narcotic effects).
Signal Word Hazard Description	DANGER. 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. 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	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	P233 Keep container tightly closed. P403 + P235 Store in well ventilated area. Keep cool. P405 Store locked up.
Disposal Note	P501 Dispose all unused, waste or empty containers in accordance with local regulations. This product mixture has been classified based on its ingredients.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %	
Homopolymer of HDI	28182-81-2	30-60	
tert-Butyl acetate	540-88-5	15-40	
4-Chlorobenzotrifluoride	98-56-6	10-30	

TECIS

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

 $<<\mbox{The actual concentration(s)}$ withheld as a trade secret>> % (x,y) = (x,y)

SECTION 04: FIRST-AID MEASURES

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.
Eye contact	In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. 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. If
Most important symptoms and effects, whether acute or delayed	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. Harmful if swallowed, in contact with skin or if inhaled. Causes severe skin and eye
whether acute or delayed	irritation. Can cause skin sensitization. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May cause respiratory irritation.
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

Specific hazards arising from thehazardous product, such as the nature of any hazardous combustion products Special protective equipment andprecautions for fire-fighters "Alcohol" foam, CO2, dry chemical. Do not use water in a jet. During a fire, isocyanate vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Use cold water spray to cool exposed containers to minimize risk of rupture. Thermal decomposition products are toxic. May include:. Oxides of carbon (CO, CO2). Hydrogen cyanide. Oxides of nitrogen. Dense black smoke. Thermal decomposition may release isocyanate vapors. Under hot acidic conditions:. Isobutylene. Acetic acid. 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. Take precautions against static discharge. Equipment should be grounded.
Methods and materials for containment	
and cleaning up	
Leak/spill	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. 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%). Allow to stand uncovered for 72 hours to let carbon dioxide escape. 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	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. Prevent accumulation of electrostatic charges. Ground handling equipment. Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. Avoid breathing vapours or mist. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed vapour or spray 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. Avoid contact with moisture. Attacks some types of rubber, plastics and coatings. Do not store above 40 deg c.



SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

			1		
INGREDIENTS	TWA	CGIH TLV STEL	OSH PEL	IA PEL STEL	NIOSH REL
Homopolymer of HDI	5 mg/m3	Not established	5 mg/m3	Not established	5 mg/m3
	Supplier: 0.5 mg/	/m3 (TWA)			
tert-Butyl acetate	200 ppm	Not established	200 ppm	Not established	200 ppm
	CA ON AB BC: 5	00ppm (TWA), 200ppm (ST	EL)		
4-Chlorobenzotrifluoride	Not established	Not established	Not established	Not established	Not established
Appropriate engineering	g controls	Provide natural or mecha exposure limits. Local me contamination, such as op gases and fumes that may ventilation (ie. ACGIH indi adequate ventilation. Expl	chanical exhaust ven ben process equipme y be emitted. Standar ustrial ventilation) sho	tilation should be used a nt, or during purging oper rd reference sources reg buld be consulted for gui	at sources of air erations, to capture arding industrial
Personal Protective Equ	uipment			vontilation.	
Gloves/ type		Wear skin protection equi the nature of the work to b rubber. Contact glove su	be performed. The fo	llowing gloves are recor	ment depends on nmended :. Butyl
Eye/type		Liquid chemical goggles.	Chemical safety gogg	gles and full faceshield if	a splash hazard
Respiratory/type		Local exhaust ventilation i when contaminant levels	is recommended. We	ear an appropriate, prope	erly fitted respirator
Clothing/type Footwear/type		Wear adequate protective	e clothes.	nded exposure inflits.	
Other/type		Emergency showers and their hands and face befo	eye wash stations sh		
Medical surveillance		Medical supervision of all recommended. These sh with pulmonary function te conditions, chronic bronch or sensitization should be diagnosed as sensitized to	employees who hand ould include preempl est (FEC, FVC as a m nitis, other chronic res excluded from worki	dle or come in contact wi oyment and periodic me ninimum). Persons with spiratory diseases or rec ng with isocyanates. On	ith isocyanates is dical examinations asthmatic-type urring skin eczema ice a person is

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Odour Odour threshold (ppm) pH Melting / Freezing point (deg C) Initial boiling point / boiling range (deg C). Flash point (deg C), method Evaporation rate Flammability (solids and gases) Upper flammable limit (% vol) Lower flammable limit (% vol) Vapour pressure (mm Hg) Vapour pressure (mm Hg) Vapour density (air=1) Relative Density (Specific Gravity) Pounds / USG. Solubility Partition coefficient — n-octanol/water Auto ignition temperature (deg C) Decomposition temperature Viscosity VOC (less water)	Liquid. Light yellow. Solvent odour. Not available. Not available. Not available. A°C. (estimate; lowest flash point ingredient). Not available. Not available. Not applicable. Flammable liquid. 10.5. 0.9. Not available. Not available.
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SECTION 10: STABILITY AND REACTIVITY



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Incompatible materails..... Hazardous decomposition products...... Strong oxidizing agents. Amines. Acids. Alkalies. Nitrates. Plastics. Copper alloys. Water. No hazardous decomposition products when stored and handled correctly. See hazardous combustion products section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS		LC50	LD50
Homopolymer of HDI		390-453 mg/m3 rat 4 hours	> 5,000 mg/kg (rat, oral); > 5,000 mg/kg (rabbit, dermal)
tert-Butyl acetate		>2,230 mg/m3 4 hours rat	4,100 mg/kg (rat, oral); >2,000 mg/kg (rabbit, dermal)
4-Chlorobenzotrifluoride		4479 ppm	>6,800 mg/kg (rat oral); >2,700 mg/kg (rabbit dermal)
Route of exposure	Eye contact. Skin contact	ct. Inhalation.	
Symptoms related to the physical, chemica and toxicological characteristics Effects of acute exposure	The aromatic hydrocarbo	on solvents in this product can be i	
	narcosis characterized b inhalation. Can cause m include a burning sensat skin. May cause drying o above the exposure limit respiratory tract. This ca difficult breathing and re nonspecific bronchial hy similar symptoms, as we lead to bronchitis, broncl pneumonitis, with flu-like	tion, they may cause central nervo by nausea, lightheadedness and dia oderate skin irritation. Skin irritation tion, redness, swelling and blisters. or flaking of the skin. Isocyanate va is can irritate (burning sensation) th an cause a runny nose, sore throat duced pulmonary functioning. Pers perreactivity can respond to conce ell as asthma attack. Exposure wel hial spasm and pulmonary edema. e symptoms has also been reported purs after exposure. Effects are us	zziness from overexposure by n signs and symptoms may May be absorbed through the pour/mists at concentrations ne mucous membranes in the , coughing, chest discomfort, sons with pre-existing, ntrations below the TLV with I above the TLV or PEL may Chemical or hypersensitive d. These symptoms can be
Inhalation (acute)	Solvent vapours may be and itching of eyes, dryn vapour concentrations m vapour/mists at concent the mucous membranes	irritating to the eyes, nose and thru tess of the throat and tightness in the nay cause anesthetic effects and se rations above the exposure limits c in the respiratory tract. This can co ort, difficult breathing and reduced	oat, resulting in redness, burning he chest. Breathing of high erious health effects. Isocyanate an irritate (burning sensation) ause a runny nose, sore throat,
Effects of chronic exposure	Breathing high concentra effects. Prolonged or rep	ations of vapour may cause anesth seated exposure may result in skin ating and inhaling this product may	etic effects and serious health sensitization. Intentional misuse
Inhalation (chronic)	Chronic exposure to org effects including perman damage and reproductiv vomiting, abdominal pair	anic solvent vapors have been ass ent brain and/or nervous system d e effects among women. Symptom n, headache, impaired memory, los cessive inhalation of vapours can c	ociated with various neurotoxic amage, kidney, liver, blood ns may include nausea, as of coordination, insomnia and
Carcinogenicity of material	No component of this pr as probable, possible or	roduct present at levels greater tha confirmed human carcinogen by I	n or equal to 0.1% is identified ARC or ACGIH.
Reproductive effects Sensitizing capability of material	Isocyanates are known t	roduct present at levels greater that to cause skin and respiratory sensitive to cause skin and respiratory sensitive	tization in humans. Animal tests
Specific Target Organ Toxicity Acute Toxicity Estimate (ATE)	May cause drowsiness c	iratory sensitization can result from or dizziness. May cause respiratory mg/kg. ATE mix (dermal):. >2800	rirritation.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
Persistence and degradability
Bioaccumulative potential
Mobility in soil
Other adverse effects

Product data not available. Product data not available. Product data not available. Product data not available. Do not allow to enter waters, waste water or soil.

SECTION 13: DISPOSAL CONSIDERATIONS

contaminated packaging

Information on safe handling for disposal. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. 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
DOT Classification (Road)	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). Refer to 49CRF 172.101 for additional non-bulk packaging requirements.
IATA Classification (Air)	UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II. Limited Quantity. Do not ship by air without checking appropriate IATA regulations.
IMDG Classification (Marine)	UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - EmS: F-E S-E. Limited Quantity. Check IMDG regulations for limited quantity exemptions.
Marine Pollutant Proof of Classification	No.

SECTION 15: REGULATORY INFORMATION

	O_{2} Demonstrate Outback and a list (DOL)
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.
substances	
Section 311/312 - hazard categories	Immediate health, delayed health, fire hazard.
Section 313	None above De minimus % limit.
EPA hazardous air pollutants (HAPS)	Hexamethylene diisocyanate.
40CFR63	
California Proposition 65	This product does not contain any chemical(s) known to the State of California to cause cancer or reproductive toxicity. For more information, go to www.P65Warnings.ca.gov.

SECTION 16: OTHER INFORMATION

Prepared by: Telephone number: Disclaimer:	(800) 387-7981.
	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.
Review Date: Date of the latest revision of the safety data sheet	2022-11-30.

