

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

PRODUCT: PF 689C MEDIUM ACTIVATOR FOR PF 688C

SECTION 01: IDENTIFICATION

Paints. Accelerator and activator.

Product identifier..... PF 689C MEDIUM ACTIVATOR FOR PF 688C

Other means of identification

Mixture.

use

Initial supplier identifier.....

Pro Form Products Ltd.

604 McGeachie Drive Milton, Ontario L9T3Y5

Tel (905) 878-4990 Fax (905) 878-1189

For transportation emergencies (in Canada) call CANUTEC 1-888-226-8832 (CAN-UTEC); 24 hour emergency number:.....

IN THE UNITED STATES CALL CHEMTRÉC 1-800-424-9300.

** For medical emergencies contact your local poison control centre **.

NFPA rating...... Health: 2 Fire: 4 Reactivity: 1.

HMIS...... H: 2 F:4 R: 1.

SECTION 02: HAZARD IDENTIFICATION



Hazard Classification	Category 1. Eye Damage/Irritation — Category 2A. Acute Toxicity (Inhalation) — Category 3. Specific Target Organ Toxicity — Single Exposure — Category 3. (Respiratory system). (Narcotic Effects). (CNS).
Signal WordHazard Description	
Prevention	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. P284 In case of inadequate ventilation wear respiratory protection.
Response	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. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. 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. P311 Call a POISON CENTRE or doctor. P312 Call a POISON CENTER/doctor if you feel unwell. P321 - For specific treatment see section 4 on this SDS. P333 + P313 If skin irritation or rash occurs, get medical advice/attention. P337 + P313 - If eye irritation persists get medical attention. P342 + P311 If experiencing respiratory symptoms; call poison center or doctor. 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	
Disposal	P501 Dispose all unused, waste or empty containers in accordance with local regulations.
Other hazards	None known.
Note	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	
< <the a<="" actual="" as="" concentration(s)="" td="" withheld=""><td>trade secret>> .</td><td></td><td></td></the>	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.
Eye contact	
	Obtain medical attention.
Inhalation	Move to fresh air. Make victim comfortable for breathing. If breathing is difficult, give
	oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the product. Obtain immediate medical attention.
Ingestion	Do not induce vomiting. Rinse mouth with water. If spontaneous vomiting occurs have
goodo	victim lean forward with head down to prevent aspiration of fluid into the lungs. Never give
	anything by mouth to an unconscious person. Get medical attention if symptoms occur.
Most important symptoms and effects,	
whether acute or delayed	depression. Can cause skin sensitization. Can cause respiratory sensitization. Symptoms
Additional information	may include allergic skin reaction, dermatitis or rash.
Additional information	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.
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SECTION 05: FIRE-FIGHTING MEASURES

Suitable extinguishing media..... hazardous product, such as the nature of any hazardous combustion products Special protective equipment and precautions for fire-fighters

"Alcohol" foam, CO2, dry chemical. Do not use solid water streams or water jet. During fire, gases hazardous to health may be formed.

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. Do not allow run-off into drains, surface waters or ground waters.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Environmental precautions.....

Do not allow product to leak into drains or waterways. If spill does contaminate waterways then inform authorities.

and emergency procedures

Personal precautions, protective equipment No action shall be taken involving any personal risk or without suitable training. Take precautions against static discharge. Equipment should be grounded. Use non-sparking tools and equipment to pick up the spilled material. 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. Beware of vapours accumulating to form explosive concentrations. Vapors can form explosive mixture in air

Methods and materials for containment and cleaning up

Wear proper personal protection equipment. Contain spilled material and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations. Treat original container as hazardous due to any residual product still in container.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling.....

Ensure that equipment is properly bonded and grounded during filling and transferring as product may become electrostatically charged. Use adequate ventilation. Do not breathe vapours, mist or dust. Wear respiratory protection if material is heated, sprayed, used in confined space, or if exposure limit is exceeded. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed vapour of spray



SECTION 07: HANDLING AND STORAGE

Precautions for safe handling.....

mist. Avoid skin and eye contact. Avoid formation of aerosol. Do not spray on a naked flame or any incandescent material. Employees should wash hands and face before eating or drinking. Smoking, eating and drinking should be prohibited in the application area. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks, and open flames. Exposure to vapours of heated isocyanates can be extremely dangerous. Store in tightly closed containers to prevent moisture contamination. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide adequate ventilation to protect from these hazards and to keep below maximum exposure values. Electrical installations / working materials must comply with the technological safety standards. Incompatible materials include, but not limited to:. Strong reducing agents. Acids. Bases. Nitrates. Plastics.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA AC	GIH TLV STEL	PEL OSHA	A PEL STEL	NIOSH REL
Homopolymer of HDI	5 mg/m3	Not established	5 mg/m3	Not established	5 mg/m3
	Supplier: 0.5 mg/r	n3 (TWA)			
tert-Butyl acetate	200 ppm	Not established	200 ppm	Not established	200 ppm
	CA ON AB BC: 50)ppm (TWA), 200ppm (STI	EL)		
4-Chlorobenzotrifluoride	Not established	Not established	Not established	Not established	Not established
Appropriate engineering		Explosion-proof exhaust v the exposure limits.	ventilation. Local exha	ust should be used to m	naintain levels below
Personal Protective Equi Gloves/ type	pment	Impervious gloves. Consurecommendations.	ult your personal protec	ctive equipment supplie	r for additional
Eye/type		Chemical safety goggles a	and full faceshield if a	splash hazard exists. C	onsult your
Respiratory/type		personal protective equipr Wear an appropriate, progrecommended exposure li Consult your personal pro	imits. Full Face Mask	with organic vapor cartr	idge, Type A filter.
Clothing/type		Wear impervious protective		our personal protective e	equipment supplier
Footwear/type		for additional recommenda Wear chemical resistant s for additional recommenda	safety boots. Consult y ations.		
Other/type		Emergency showers and their hands and face before			

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state	Liquid.
Colour	Not available.
Odour	Not available.
Odour threshold (ppm)	Not available.
pH	Not applicable.
Melting / Freezing point (deg C)	Not available.
Initial boiling point / boiling range (deg C).	Not available.
Flash point (deg C), method	Not available.
Evaporation rate	Not available.
Flammability (solids and gases)	Not applicable. Flammable liquid.
Upper flammable limit (% vol)	Not available.
Lower flammable limit (% vol)	Not available.
Vapour pressure (mm Hg)	Not available.
Vapour density (air=1)	Not available.
Relative Density (Specific Gravity)	1.053.
Solubility	Not available.
Partition coefficient — n-octanol/water	Not available.
	Not available.
Auto ignition temperature (deg C)	Not available.
Decomposition temperature	Not available.
Viscosity	
% Volume Volatile exempt	56.90.
Formula LBS/GAL	8.79.
% Weight Solids	47.50.
% Volume Solids	43.12.
% Weight Volatile (VOC)	0.00.
% Volume Volatile (VOC)	44.30.
Total MIR	0.08.



SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Coverage (sq ft/gal @ 1 mil)	692.
Percent weight binder	47.5.
Percent volume binder	43.1.
Ea. WT. NCO	410.53

SECTION 10: STABILITY AND REACTIVITY

Keep away from sparks or open flame. Chemical stability..... Stable at normal temperatures and pressures. Possibility of hazardous reactions..... Vapours may form explosive mixture with air. Conditions to avoid, including static Avoid heat, spark, open flames.

discharge, shock or vibration Hazardous decomposition products..... Acetic acid. Carbon oxides

SECTION 11: TOXICOLOGICAL INFORMATION

l	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	 ATEmix - TBAC 22 mg/L (inhalation) 4 hour vapour. ATEmix - 9756 mg/L (inhalation) vapour (diisocyanate). Causes serious eye irritation. Causes skin irritation. Solvents may degrease the skin. 		
	Reproductive effects	 No component of this product present at levels greater than or equal to 0.1%. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Central nervous system. Respiratory system. Not classified. 		

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity..... p-Chlorobenzotrifluoride - LC50 3 mg/L 96hr (Zebra fish). EC50 2 mg/L 48hr (Daphnia Magna). EC50 >0.41 mg/L 96hr (Green Algae). Product data not available. Persistence and degradability..... Bioaccumulative potential...... Product data not available. Mobility in soil...... Product data not available.

May be harmful if swallowed and enters airways.

SECTION 13: DISPOSAL CONSIDERATIONS

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

Aspiration Hazard.....

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)	
IATA Classification (Air)	Refer to 49CRF 172.101 for additional non-bulk packaging requirement. UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II. Limited Quantity. Do
IMDG Classification (Marine)	
Marine Pollutant	Limited Quantity. Check IMDG regulations for limited quantity exemptions. 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

On Domestic Substances List (DSL).

CEPA status...... On Domestic Substances L National Pollutant Release Inventory (NPRI)None listed in this product. Environmental Emergency Regulations.... Categorization of the DSL..... None listed in this product. None listed in this product.

New Substances Risk Assessment (CAS # 540-88-5).

Summary

TSCA inventory status......OSHA..... 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. EPA hazardous air pollutants (HAPS) Hexamethylene diisocyanate.

40CFR63

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. California Proposition 65..... cancer or reproductive toxicity.

SECTION 16: OTHER INFORMATION

REGULATORY AFFAIRS. Prepared by:

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.

Review Date:.... 2022-11-30. 2024-05-04

Date of the latest revision of the safety ... data sheet