PR

#### SAFETY DATA SHEET

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

# PRODUCT: 12294 SLOW ACTIVATOR FOR 12292

FORM

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

Product identifier Other means of identification	12294 SLOW ACTIVATOR FOR 12292
Chemical family Recommended use and restrictions on use	Aliphatic polyisocyanate. Solvent blend. Paints.
Initial supplier identifier	Pro Form Products Ltd. 604 McGeachie Drive Milton, Ontario L9T3Y5 Tel (905) 878-4990 Fax (905) 878-1189
NFPA rating HMIS 24 hour emergency number:	H: 2 F: 3 R: 1.
	For medical emergencies contact your local poison control centre .

## **SECTION 02: HAZARD IDENTIFICATION**



Signal Word Hazard Classification	WARNING. Flammable Liquid 3. Skin Irritation — Category 2. Skin Sensitizer — Category 1. Eye Irritation — Category 2A. Acute Toxicity (Inhalation) — Category 4. Specific Target Organ
Hazard Description	Toxicity — Single Exposure — Category 3. (respiratory system). (narcotic effects). H226 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	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	P233 Keep container tightly closed. P403 + P235 Store in well ventilated area. Keep cool. P405 Store locked up.
Disposal Note	

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS		
CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
4-Chlorobenzotrifluoride	98-56-6	60-80
Homopolymer of HDI	28182-81-2	15-40
2-Butoxyethyl Acetate	112-07-2	0.1-1

<<The actual concentration(s) withheld as a trade secret>> .



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SECTION 04: FIRST-AID MEASURES

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#### In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at Eye contact..... least 15 minutes. Check for and remove any contact lenses, if safe and easy to do so. Consult a physician if irritation continues. 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. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is Inhalation..... difficult, give oxygen, obtain medical attention. Rinse mouth with water. Do not induce vomiting. If spontaneous vomiting occurs have Ingestion..... 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. Can cause skin sensitization. Most important symptoms and effects, ..... Causes skin and eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation. High vapour whether acute or delayed concentrations may be irritating to the respiratory tract. Vapors have a narcotic effect and 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 Additional information..... sensitizer. Treat symptomatically as for contact dermatitis or thermal burns. If burned, treat as thermal burn. 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. Isocyanates. Dense black smoke. Other potentially toxic fumes. 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	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. Use non-sparking tools and equipment to pick up the spilled material.
Methods and materials for containment and cleaning up	
Major spills	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.
Minor spills	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
Clean up	(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.

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

Precautions for safe handling...... 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. Do not reseal if contamination is suspected. Employees should wash hands and face before eating or drinking.



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

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks, and open flames. Store in a cool, dry and well ventilated area. Store in tightly closed containers to prevent moisture contamination. 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)			
2-Butoxyethyl Acetate	20 ppm TLV	Not established	Not established	Not established	5 ppm
Appropriate engineering	controls	Ventilate adequately. Exh environmental contaminat the current occupational e local exhaust is inadequat devices. Explosion-proof of	tion. Vent work area t exposure limits. Avoid te, persons exposed t	o ensure airborne conce breathing mists; if gene	entrations are below eral ventilation or
Personal Protective Equ	ipment				
Respiratory/type		Whenever concentrations respiratory protection mus exceed the use limits of the respirator is mandatory we levels are 10 times the ap space or with limited vent	st be worn. Use NIOS ne respirator. The use hen airborne concenti propriate exposure lir	H approved respirator of of a positive pressure a ations are not known or	r equipment. Do not ir supplied airborne solvent
Eye/type		Chemical safety goggles. exists.		les and full faceshield if	a splash hazard
Gloves/ type		Wear skin protection equi the nature of the work to b	pment. The selection	of skin protection equip	nent depends on mmendations
Clothing/type		Wear adequate protective exposure.	clothes. Wear long s	leeves and trousers to p	revent dermal
Footwear/type		Safety boots per local reg	ulations.		
Other/type		Eye wash facility and eme	ergency shower should	d be in close proximity.	Employees should
Monitoring		wash their hands and face Exposure levels must be in TLV is not exceeded.	monitored by accepted	d monitoring techniques	to ensure that the
Medical surveillance		Medical supervision of all recommended. These sh with pulmonary function te conditions, chronic bronch or sensitization should be diagnosed as sensitized te with asthmatic-type condit recurrant skin eczema or Once a person is diagnos permitted.	ould include preemplo est (FEC, FVC as a m nitis, other chronic res excluded from workir o an isocyanate, no fu tions, chronic bronchit sensitization should b	byment and periodic merinimum). Persons with a piratory diseases or recrug with isocyanates. On irther exposure can be provide the construction of is, other chronic respirate e excluded from working e excluded from working	dical examinations asthmatic-type urring skin eczema ce a person is permitted. Persons tory diseases or g with isocyanates.

#### SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Colour	iquid. lear to pale yellow. haracteristic odour. Aromatic. ot available. -24 C. 35 C. 35 C. 36 c. (estimate; lowest flash point ingredient). ot available. Jot applicable. Flammable liquid. 0.5. 9. ot available. ot available. 276. 0.65. eacts slowly with water to liberate CO2 gas. ot available. ot available. ot available.
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#### SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Decomposition temperature	Not available.
Viscosity	14 sec Zahn #2.
VOC (less water) % Volatile by volume	0.15 lbs/USG; 17.97 g/L.
% Volatile by volume	0.68.

#### 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 discharge, shock or vibration	Avoid heat, spark, open flames. Electrostatic charge.
Incompătible materails Hazardous decomposition products	Water, Amines, Strong bases, Alcohols, Copper alloys. Strong oxidizing agents. No hazardous decomposition products when stored and handled correctly. See hazardous combustion products section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

NGREDIENTS	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)	
2-Butoxyethyl Acetate	> 450 ppm rat 6h	1,600 mg/kg (rat, oral) 1,480 mg/kg (rabbit, dermal)	
Route of exposure Symptoms related to the physical, chemica and toxicological characteristics Effects of acute exposure	Eye contact. Skin contact. Inhalation. Skin absorption. Hazardous in contact with skin, by ingestion, and by inh espiratory system. Ingestion can result in the irritation of high vapour concentrations may cause anesthetic effect be harmful if absorbed through the skin.	of the digestive tract. Breathing of	
Effects of chronic exposure	Reports have associated repeated or prolonged overexposure to solvents with permanent brain and nervous system damage. 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. May be harmful if absorbed through the skin. Isocyanates are known to cause skin and respiratory sensitization in humans. Animal tests have indicated that respiratory sensitization can result from skin contact with diisocyanates.		
Skin absorption Sensitizing capability of material			
Carcinogenicity of material	No component of this product present at levels greater as probable, possible or confirmed human carcinogen	than or equal to 0.1% is identified	
Reproductive effects	No component of this product present at levels greater None known.	than or equal to 0.1% .	
Specific Target Organ Toxicity	May cause respiratory irritation. May cause drowsiness		

#### 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 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**

ATED MATERIAL - Class 3 - Packing Group III - This product meets
Temption when packaged in containers less than 5 liters . ATED MATERIAL - Class 3 - Packing Group III - This product meets temption when packaged in containers less than 5 liters . Refer to dditional non-bulk packaging requirements.
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### **SECTION 14: TRANSPORT INFORMATION**

IATA Classification (Air)	
IMDG Classification (Marine)	Do not ship by air without checking appropriate IATA regulations. UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group III - EmS: F-E S-E . Limited Quantity. Check IMDG regulations for limited quantity exemptions.
Marine Pollutant Proof of Classification	No.

### SECTION 15: REGULATORY INFORMATION

CEPA status TSCA inventory status	On Domestic Substances List (DSL). All components are listed.
	This angle is a side instead.
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. 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: Date of the latest revision of the safety data sheet	2020-08-14

