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SAFETY DATA SHEET

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

PRODUCT: 12296 MEDIUM ACTIVATOR FOR 12292

FORM

SECTION 01: IDENTIFICATION

Product identifier Other means of identification	12296 MEDIUM 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: 4 R: 1.

SECTION 02: HAZARD IDENTIFICATION



Signal Word Hazard Classification	DANGER. 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	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	30-60	
Homopolymer of HDI	28182-81-2	15-40	
Acetic acid, methyl ester	79-20-9	10-30	
2-(2-Ethoxyethoxy) Ethyl acetate	112-15-2	0.1-1	

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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

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. Consult a physician if irritation continues.
Skin contact	Immediately remove all contaminated clothing; flush skin with water for at least 15 minutes.
Inhalation	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 difficult, give oxygen, obtain medical attention.
Ingestion	Rinse mouth with water. 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.
Most important symptoms and effects, whether acute or delayed	Harmful if swallowed, in contact with skin or if inhaled. Can cause skin sensitization. Causes skin and eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation. Vapors have a
	narcotic effect and may cause headache, fatigue, dizziness and nausea. May cause respiratory irritation.
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 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. 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

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
Minor spills	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
Clean up	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 regulations.



cold water spray. Heat will cause pressure buildup and may cause explosive rupture.

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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. Ground handling equipment. 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.
Conditions for safe storage, including any incompatibilities	

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)			
2-(2-Ethoxyethoxy) Ethyl acetate	Not established	Not established	Not established	Not established	Not established
Appropriate engineering	controls	Provide natural or mecha exposure limits. Local me contamination, such as op gases and fumes that ma ventilation (ie. ACGIH ind adequate ventilation. Exp	chanical exhaust vent pen process equipmer y be emitted. Standard ustrial ventilation) sho	ilation should be used a nt, or during purging ope d reference sources reg uld be consulted for gui	at sources of air erations, to capture arding industrial
Personal Protective Equ				entilation.	
Respiratory/type		Whenever concentrations respiratory protection must 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 NIOSI ne respirator. The use hen airborne concentr propriate exposure lin	H approved respirator o of a positive pressure a ations are not known or	r equipment. Do not air supplied r airborne solvent
Eye/type		Chemical safety goggles. exists.			
Gloves/ type		Wear skin protection equi the nature of the work to b Practice good hygiene, w	be performed. Contac	t glove supplier for reco	ment depends on ommendations.
Clothing/type		Wear adequate protective exposure.	e clothes. Wear long sl	eeves and trousers to p	prevent dermal
Footwear/type Other/type		Safety boots per local reg	ergency shower should	d be in close proximity.	Employees should oducts.
Monitoring		Exposure levels must be 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 to conditions, chronic broncl or sensitization should be diagnosed as sensitized t with asthmatic-type condi recurrant skin eczema or Once a person is diagnos permitted.	ould include preemplo est (FEC, FVC as a m hitis, other chronic res excluded from workin o an isocyanate, no fu tions, chronic bronchit sensitization should b	ayment and periodic me inimum). Persons with piratory diseases or rec g with isocyanates. On rther exposure can be is, other chronic respira e excluded from working	dical examinations asthmatic-type urring skin eczema ice a person is permitted. Persons itory diseases or g with isocyanates.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

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Appearance/Physical state	
Colour	C
Odour	
Odour threshold (ppm)	Ν
рН	Ν

Liquid. Clear to pale yellow. Characteristic odour. Aromatic. Not available. Not available.



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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Contact with moisture, other materials that react with isocyanates, or temperatures above
Chemical stability Possibility of hazardous reactions	 177 C, may cause polymerization. Stable at normal temperatures and pressures. 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.
Incompatible 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

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)
2-(2-Ethoxyethoxy) Ethyl acetate	Not Available	11,000 mg/kg (oral rat) 4,400 mg/kg (rabbit oral) 15.1 mL/kg (rabbit dermal)

Route of exposure Symptoms related to the physical, chemica and toxicological characteristics	Eye contact. Skin contact. 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. Can result in irritation in the digestive tract. Aspiration of liquid into lungs can cause chemical pneumonitis. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea. 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 or repeated exposure may cause lung damage, including a decrease in lung function. 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.
Skin absorption Sensitizing capability of material	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.
Carcinogenicity of material	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC or ACGIH.
Reproductive effects Mutagenicity Specific Target Organ Toxicity	No component of this product present at levels greater than or equal to 0.1% . The data do not allow for an adequate assessment of the mutagenic effect. May cause respiratory irritation. May cause drowsiness or dizziness.



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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

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.
DOT Classification (Road)	
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.
Marine Pollutant Proof of Classification	Limited Quantity. Check IMDG regulations for limited quantity exemptions. 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

CEPA status TSCA inventory status OSHA SARA Title III	On Domestic Substances List (DSL). All components are listed. This product is considered hazardous under the OSHA Hazard Communication Standard.
Section 302 - extremely hazardous substances	None.
Section 311/312 - hazard categories Section 313 EPA hazardous air pollutants (HAPS) 40CFR63	Glycol ethers.
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:	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 with any other material or in any other process. 2022-11-30.
Date of the latest revision of the safety data sheet	2020-08-14

