

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

12504 PREMIUM RESERVE MEDIUM ACTIVATOR PRODUCT:

SECTION 01: IDENTIFICATION

Product identifier..... 12504 PREMIUM RESERVE MEDIUM ACTIVATOR

Other means of identification

Accelerator and activator.

Initial supplier identifier.....

24 hour emergency number:.....

NFPA rating...... Health: 2 Fire: 3 Reactivity: 1.

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

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

HMIS...... H: 2 F: 3 R: 1.

SECTION 02: HAZARD IDENTIFICATION





Hazard Classification	Flammable Liquid 3. 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. (narcotic effects). (respiratory system).
Signal Word	WARNING.
Hazard Description	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
	May cause respiratory irritation. H336 May cause drowsiness or dizziness.
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.
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. Continué 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.
3	P405 Store locked up.
Disposal	
Note	

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS						
CHEMICAL NAME AND SYNONYMS	CAS#	WT. %				
Homopolymer of HDI	28182-81-2	30-60				
4-Chlorobenzotrifluoride	98-56-6	10-30				
n-Butyl Acetate	123-86-4	7-13				



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SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

2-Butoxyethyl Acetate

112-07-2

1-5

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

SECTION 04: FIRST-AID MEASURES

Inhalation..... Ingestion.....

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention.

Do not induce vomiting. Rinse mouth with water. Give 1 to 2 glasses of water to drink. 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. Seek medical assistance as soon as possible.

Skin contact.....

Immediately remove all contaminated clothing; flush skin with water for at least 15 minutes. If irritation persists, seek medical attention.

Eye contact..... Most important symptoms and effects,

Check for and remove any contact lenses, if safe and easy to do so. Flush for 15 minutes using plenty of water. If irritation persists seek medical attention.

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. Skin: this compound is a known skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burns. If burned, treat as thermal burn. 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. Respiratory: this compound is a known pulmonary sensitizer. Treatment is essentially symptomatic. An individual having a skin or pulmonary sensitization reaction to this material should be removed from exposure to any isocyanate. The main hazard from ingestion is aspiration of the liquid into the lungs producing chemical pneumonitis. 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

Specific hazards arising from the hazardous 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. Flammable liquid. Thermal decomposition products are toxic. May include:. Oxides of carbon (CO, CO2). Oxides of nitrogen. Hydrogen cyanide. Isocyanic acid. Thermal decomposition may release isocyanate vapors. Dense black smoke.

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. During a fire, isocyanate vapours and other irritating, highly toxic gases may be generated by thermal decomposition or combustion.

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. Take precautions against static discharge. 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.

Methods and materials for containment and cleaning up

Leak/spill.....

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

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 Canada, call Canutec at (613) 996-6666. If transportation spill occurs in United States, call Chemtrec 1-800-424-9300. Large quantities may be pumped into closed, but not sealed, containers for disposal. Process can generate heat.

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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 breathing vapours or mist. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed vapour or spray mist. Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. Handle and open container with care. Employees should wash hands and face before eating or drinking. Keep away from heat, sparks, and open flames. Store in a cool, dry and well ventilated

Conditions for safe storage, including any incompatibilities

area. Keep container closed when not in use. Store away from sunlight. Do not store where product can come into contact with water.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

	ACGIH TLV		OSHA PEL		NIOSH	
INGREDIENTS	TWA	STEL	PEL	STEL	REL	
Homopolymer of HDI	5 mg/m3	Not established	5 mg/m3	Not established	5 mg/m3	
	Supplier: 0.5 mg/m	13 (TWA)				
4-Chlorobenzotrifluoride	Not established	Not established	Not established	Not established	Not established	
n-Butyl Acetate	50 ppm	150 ppm	150 ppm	200 ppm	150 ppm / STEL 200 ppm	
	CA ON: 50ppm (TV	WA), 150ppm (STEL)				
2-Butoxyethyl Acetate	20 ppm TLV	Not established	Not established	Not established	5 ppm	
Personal Protective Equ Respiratory/type	uipment	processed, heated or spiexposure levels below ai should be used at source during purging operation reference sources regard be consulted for guidance. Whenever concentration respiratory protection murespirator is required any The use of a positive preconcentrations are not knexposure limit or spraying NIOSH approved respira	rborne exposure limits. es of air contamination, s, to capture gases and ling industrial ventilation e about adequate vent s of isocyanates exceets the worn. An air-puritime inhalation of vapossure air supplied respown or airborne solver g is performed in a con	Local mechanical exhi- such as open process d fumes that may be en in (ie. ACGIH industrial illation. d the exposure limit or fying particulate/organi- our above the exposure irrator is mandatory when the levels are 10 times the	aust ventilation equipment, or nitted. Standard ventilation) should are not known, c vapour cartridge limit is possible. en airborne ne appropriate ited ventilation. Use	
Eye/type		Chemical safety goggles	. Chemical safety gogg	les and full faceshield	if a splash hazard	
Gloves/ type	1	exists. Wear skin protection equ the nature of the work to rubber. Butyl rubber. Ned the protection time of the	be performed. The folloprene. In the case of	lowing gloves are recormixtures, consisting of	mmended :. Nitrile	
Clothing/type		Wear adequate protective exposure.	e clothes. Wear long sl	leeves and trousers to	prevent dermal	
Footwear/typeOther/type		Safety boots per local reg Eye wash facility and em	ergency shower should	d be in close proximity.	Employees should	
Medical surveillance		wash their hands and face before eating, drinking, or using tobacco products. Medical supervision of all employees who handle or come in contact with isocyanates is recommended. These should include preemployment and periodic medical examinations with pulmonary function test (FEC, FVC as a minimum). Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurring skin eczema or sensitization should be excluded from working with isocyanates. Once a person is diagnosed as sensitized to an isocyanate, no further exposure can be permitted.				

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state.....Colour..... Liquid. Clear to pale yellow. Characteristic odour. Odour threshold (ppm)..... Not available. Evaporation rate...... Not available.



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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Not applicable. Flammable liquid. 10.5. 0.9. Not available. Vapour density (air=1)..... Not available. Relative Density (Specific Gravity)..... 1.161. Pounds / USG.....Solubility..... 9.69. Reacts slowly with water to liberate CO2 gas. Partition coefficient — n-octanol/water..... Not available. Auto ignition temperature (deg C)..... Not available. Not available. Decomposition temperature..... Viscosity......% Volatile by weight..... 15 sec Zahn #2. VOC (less water)..... 1.16 lbs/USG; 139 g/L.

SECTION 10: STABILITY AND REACTIVITY

Contact with moisture and other materials will react with isocyanates. Reactivity Stable at normal temperatures and pressures. Chemical stability..... Contact with moisture, other materials that react with isocyanates, or temperatures above Possibility of hazardous reactions..... 177C, may cause polymerization. Avoid heat, spark, open flames. Moisture. Conditions to avoid, including static discharge, shock or vibration Incompatible materails..... Hazardous decomposition products......

Water, Amines, Strong bases, Alcohols, Copper alloys. Strong oxidizing agents. No hazardous decomposition products when stored and handled correctly. Thermal decomposition may produce acrid smoke and irritating fumes. 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)				
4-Chlorobenzotrifluoride	4479 ppm	>6,800 mg/kg (rat oral); >2,700 mg/kg (rabbit dermal)				
n-Butyl Acetate	390 ppm (4 hr.)	10768 mg/kg (rat oral) 17600 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	 Causes skin irritation. Causes reddening, stinging and swelling. Persons previously sensitized can experience allergic reaction with symptoms of reddening, itching, swelling and rash. Not available. Causes eye irritation. Can cause tearing, reddening and swelling. May cause temporary corneal damage. Vapours can produce irritation. Symtoms include tearing and reddening. Isocyanate vapour/mists at concentrations above the exposure limits can irritate (burning sensation) the mucous membranes in the respiratory tract. This can cause a runny nose, sore throat, coughing, chest discomfort, difficult breathing and reduced pulmonary functioning. Solvent vapours may be irritating to the eyes, nose and throat, resulting in 					
Ingestion	redness, burning and itching of eyes, dryness of the throat and tightness in the chest. May be harmful if swallowed. May cause central nervous system effects such as headache, nausea, vomiting and weakness.					
Effects of chronic exposure	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.					
Sensitizing capability of material	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	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.					
Reproductive effects Specific Target Organ Toxicity	No data on reproductive effects were found in the lit May cause drowsiness or dizziness. May cause resp					

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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity..... Product data not available. Persistence and degradability..... Product data not available. Bioaccumulative potential..... Product data not available. Mobility in soil..... Product data not available.

Other adverse effects..... 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

UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group III - This product meets the limited quantity exemption when packaged in containers less than 5 liters . UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group III - This product meets TDG Classification..... DOT Classification (Road)..... the limited quantity exemption when packaged in containers less than 5 liters . Refer to 49CRF 172.101 for additional non-bulk packaging requirements.
UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group III. Limited Quantity. IATA Classification (Air)..... 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. IMDG Classification (Marine)..... Marine Pollutant..... Proof of Classification..... Potential marine pollutant.
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.....

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

Immediate health, delayed health, fire hazard. Section 311/312 - hazard categories......

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

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

DISCLAIMER: All information appearing herein is based upon data obtained from Disclaimer:..... 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.

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data sheet