

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

#### 12392 PREMIUM RESERVE FAST ACTIVATOR PRODUCT:

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

Initial supplier identifier..... Pro Form Products Ltd. 604 McGeachie Drive

Milton, Ontario L9T3Y5 Tel (905) 878-4990 Fax (905) 878-1189

Product identifier..... 12392 PREMIUM RESERVE FAST ACTIVATOR

Recommended use and restrictions on ..

Chemical family.....

NFPA rating.....

24 hour emergency number:....

Mixture. Health: 2 Fire: 3 Reactivity: 1.

Paints. Accelerator and activator.

H: 2 F: 3 R: 1.

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 \*\*.

## **SECTION 02: HAZARD IDENTIFICATION**



Signal WordHazard Classification	DANGER. Flammable Liquid 2. Skin Sensitizer — Category 1. Eye Irritant 2. Acute Toxicity (Inhalation) — Category 4. Respiratory Sensitizer — Category 1. Specific Target Organ Toxicity — Single Exposure — Category 3. (respiratory system). Carcinogenicity —
Hazard Description	Category 2. Reproductive Toxicity — Category 2. H225 Highly flammable liquid and vapour. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H351 This product contains ingredients that are suspected of causing cancer. H361 Suspected of
Prevention	damaging fertility or the unborn child. P201 Obtain special instructions before use. P202 Do not handle this product until all safety instructions have been read and understood. 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. P280 Wear protective gloves and eye protection. P261 Avoid breathing mists, vapours and sprays. P284 In case of inadequate ventilation wear respiratory protection. P271 Use only outdoors or in a well ventilated area. P264 Wash thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace.
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. P333 + P313 If skin irritation or rash occurs, get medical advice/attention. P362 + P364 - Take off contaminated clothing and wash before reuse. 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. P342 + P311 If experiencing respiratory symptoms; call poison center or doctor. P321 - For specific treatment see section 4 on this SDS.
Storage	P403 + P235 Store in well ventilated area. Keep cool. P233 Keep container tightly closed. 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. %			
Propylene Glycol Monomethyl Ether Acetate	108-65-6	35-45			
Homopolymer of HDI	28182-81-2	15-25			
Ethyl Acetate	141-78-6	10-20			
n-Butyl Acetate	123-86-4	10-20			
Homopolymer of IPDI	53880-05-0	3-7			
Methyl Isobutyl Ketone	108-10-1	1-3			
n-Amyl acetate	628-63-7	1-3			
Ethyl 3-Ethoxypropionate	763-69-9	1-3			
Diisobutyl Ketone	108-83-8	<2			
1,2,4-Trimethylbenzene	95-63-6	<2			
Propyl Benzene	103-65-1	<2			
1,3,5-Trimethylbenzene	108-67-8	<2			
Solvent Naphtha, Light Aromatics	64742-95-6	0.5-1.5			
Xylene	1330-20-7	<0.3			
Cumene	98-82-8	<0.3			
Isophorone Diisocyanate	4098-71-9	<0.2			

## **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. Obtain medical attention.
Skin contact	
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention.
Ingestion	If swallowed, drink plenty of water. Wash out mouth repeatedly. 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. Get medical attention.
Most important symptoms and effects, whether acute or delayed	Harmful if swallowed, in contact with skin or if inhaled. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Additional information	In all cases, if irritation persists seek medical attention. 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. 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. 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 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.

Oxides of carbon (CO, CO2). Oxides of nitrogen. Smoke. Hydrogen cyanide. Isocyanates. 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**

Isolate area and keep unauthorized people away. Do not walk through spilled material. Wear recommended protective equipment. Ventilate. Open windows and doors to allow Leak/spill..... 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. Eliminate all sources of ignition. 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.

If temporary control of isocyanate vapour is required, a blanket of protein foam may be Major spills..... 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. 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. Minor spills..... 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 (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 Clean up..... soap and water.

## **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. Warning properties (irritation of the eyes, nose and throat or odour) are not adequate to prevent chronic overexposure from inhalation. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed vapour or spray mist. Avoid skin and eye contact. Wash thoroughly after handling. Decomposition products are highly toxic and irritating. Employee education and training are important.

Conditions for safe storage, including any incompatibilities

Store in tightly closed containers to prevent moisture contamination. Keep away from heat, sparks, and open flames. Do not reseal if contamination is suspected. Exposure to vapours of heated isocyanates can be extremely dangerous.

# **SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	TWA	H TLV STEL	OSH/ PEL	A PEL STEL	NIOSH REL
Propylene Glycol Monomethyl Ether Acetate	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)			
Ethyl Acetate	400 ppm	Not established	400 ppm	Not established	400 ppm
	CA ON: 400 ppm (T	WA)			
n-Butyl Acetate	50 ppm	150 ppm	150 ppm	200 ppm	150 ppm / STEL 200 ppm
	CA ON: 50ppm (TW	A), 150ppm (STEL)			
Homopolymer of IPDI	Not established	Not established	Not established	Not established	Not established
Methyl Isobutyl Ketone	50 ppm	75 ppm	100 ppm	Not established	50 ppm / STEL 75 ppm
	ON: 20 ppm (TWA),	75 ppm (STEL)			
n-Amyl acetate	50 ppm/15 minutes	100 ppm	100 ppm	Not established	100 ppm
Ethyl 3-Ethoxypropionate	Not established	Not established	Not established	Not established	Not established
Diisobutyl Ketone	25 ppm	Not established	50 ppm	Not established	25 ppm
1,2,4-Trimethylbenzene	25 ppm	Not established	Not established	Not established	25 ppm
Propyl Benzene	Not established	Not established	Not established	Not established	Not established
1,3,5-Trimethylbenzene	Not established	Not established	Not established	Not established	25 ppm

# **SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	TWA	CGIH TLV STEL	OS PEL	HA PEL STEL	NIOSH REL
IIIOREDIEITIO	1 4 4 7 1	OTEL		OTEL	INCL
Solvent Naphtha, Light Aromatics	Not established	Not established	500 ppm (2000 mg/m3) TWA	Not established	350 mg/m3 TWA
Xylene	50 ppm	150 ppm	100 ppm TWA	Not established	Not established
	CA ON: 100ppm	(TWA); 150ppm (STEL)			
Cumene	50 ppm	Not established	50 ppm TWA	Not established	Not established
sophorone Diisocyanate	0.005 ppm	Not established	Not established	Not established	0.005 ppm skin
Sophorone Diisocyanate Personal Protective Equ Eye/type	j controls	Chemical safety goggle exists. Contact lenses whenever concentration respiratory protection in self-contained breathin equipped with an orgar However, this should be concentrations (at or ne respirator is mandatory levels are 10 times the space or with limited verifications (at or ne respirator is mandatory levels are 10 times the space or with limited verifications wash thoroughly before Wear adequate protect exposure.  Safety boots per local in Eye wash facility and employees on the safe Provide natural or med exposure limits. Local in contamination, such as gases and fumes that in ventilation (ie. ACGIH in adequate ventilation. Medical supervision of recommended. These with pulmonary function conditions, chronic broad or sensitization should diagnosed as sensitize should include preemplitest (fev, fvc as a minimother chronic respirator excluded from working isocyanate, no further experiences.	es. Chemical safety goshould not be worn whons of isocyanates exceptust be worn. A positive gapparatus is recommic vapour cartridge and e permitted only for shear the exposure limit), when airborne concertappropriate exposure entilation. Do not excepted the excepted and in the exposure entilation. Do not excepted the excluded round in the exposure entilation in the excepted the exposure entilation to come and the exposure entilation to come and the exposure entilation of the excluded representation of the excluded from work	ggles and full faceshiel en working with this cheed the exposure limit de pressure, supplied-ainended. At least an aird particulate pre-filters ort periods of time (< 1). The use of a positive particulate on the suspension of the use of a positive particulate on the suspension of the orene. Nitrile rubber. Proceed the use limits of the orene. Nitrile rubber. Proceed the use limits of the orene. Nitrile rubber of the orene. Nitrile rubber of the orene of th	emical. or are not known, r respirator or a purifying respirator must be worn. hour) at relatively low pressure air supplied or airborne solvent pred in a confined respirator. actice good hygiene, o prevent dermal  y. Educate and train below airborne d at sources of air perations, to capture regarding industrial guidance about  with isocyanates is medical examinations th asthmatic-type ecurring skin eczema Once a person is e permitted. These ith pulmonary function , chronic bronchitis, tization should be

# **SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Physical state	Liquid. Light yellow. Ketone odour. Not available. Not available.
Vapour density (air=1)	>1.
pHRelative Density (Specific Gravity)	No data. 8.28 lb/usg - 0.99 g/mL Not available. Reacts with water.
SolubilityInitial boiling point / boiling range (deg C).	No data.
Evaporation rateFlash point (deg C), method	Not available. -4.0 °C. (estimated).
Auto ignition temperature (deg C)	No data.
Upper flammable limit (% vol) Lower flammable limit (% vol)	10.6. 1.0.
Partition coefficient — n-octanol/water	Not available.
% Volatile by volumeVOC (less water)	70.43. 5.45 lbs/USG.
Viscosity	No data.

# **SECTION 10: STABILITY AND REACTIVITY**

discharge, shock or vibration
Hazardous decomposition products......

See hazardous combustion products section 5.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS		LC50		LD50	
Propylene Glycol Monomethyl Ether Acetate		Not Available		8,532 mg/kg (rat oral) >5,000 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)	
Ethyl Acetate		16,000 ppm 6 hours rat		5,600 mg/kg (rat oral)	
n-Butyl Acetate		>33 mg/L vapour, (rat) dust/mist	5.2 mg/L	10760 mg/kg (rat, oral) mg/kg (rabbit, dermal)	14112
Homopolymer of IPDI		Not Available		Not Available	
Methyl Isobutyl Ketone		8.2 - 16.4 mg/L 4 hours rat		2080 mg/kg rat oral >16,000 mg/kg rabbit dermal	
n-Amyl acetate		>976 ppm 4 hours rat		6500 mg/kg rat oral 8359 mg/kg rabbit dermal	
Ethyl 3-Ethoxypropionate		>998 ppm 6 hours		4,309 mg/kg rat oral mg/kg rabbit dermal	4,080
Diisobutyl Ketone		>2,300 ppm 4 hours		5,285 mg/kg rat oral >2,000 mg/kg rat dermal	
1,2,4-Trimethylbenzene		>2,000 ppm 48 hours rat		3,280 mg/kg rat oral	
Propyl Benzene		Not Available		6,040 mg/kg rat oral	
1,3,5-Trimethylbenzene		Not Available		Not Available	
Solvent Naphtha, Light Aromatics		5.2 mg/L 4 hours, rat 3400 ppm 4 hours, rat		>5,000 mg/kg rat oral >2,000 mg/kg rabbit dermal	
Xylene		6350 ppm 4 hours rat	t	>3523 mg/kg rat oral	
Cumene		No Data		50 PPM, SKIN	
Isophorone Diisocyanate		123 mg/m3 4 hours ra	at	>1,000 mg/kg rat oral 1 mg/kg rat dermal	,060
Route of exposure  Effects of acute exposure  Effects of chronic exposure	Eye contact. Skin contact. Inhalation. SKIN: Irritant. Can cause reddening, itching and swelling. Persons previously sensitized can experience allergic skin reaction with symptoms of reddening, itching, swelling and rash. Cured material is difficult to remove. Contact with MDI can cause discolouration. EYE: Product liquid, aerosols or vapours are irritating. Can cause tearing, reddening and swelling. May cause temporary corneal injury. INHALATION: 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, difficulty breathing and reduced pulmonary functioning. Persons with pre-existing, nonspecific bronchial hyperractivity can respond to concentrations below the TLV with similar symptoms as well as asthma attack. These symptoms can be delayed up to several hours after exposure. Effects are usually reversible. INGESTION: May cause irritation. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea.				

organic solvents may cause permanent brain and nervous system damage.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

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. Cumene is listed by IARC in Group 2B as a possible carcinogen. . Methyl Isobutyl Ketone is possibly carcinogenic to humans (IARC Group 2B). Carcinogenicity of material.....

Reproductive effects..... High level exposure to Xylene in some animal studies have been reported to cause health effects on the developing embryo/fetus. The relevance of this to humans is not known.

## **SECTION 12: ECOLOGICAL INFORMATION**

Environmental..... 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 as an industrial waste in a manner acceptable to good waste management practice and in accordance with applicable local, provincial/State or federal regulations.

## **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)..... UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - Ltd Qty (1 litre). Refer to 49CRF 172.101 for additional non-bulk packaging requirements.
UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II. Limited Quantity. IATA Classification (Air)..... Do not ship by air without checking appropriate IATA regulations.
UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - EmS: F-E S-E. IMDG Classification (Marine)..... Limited Quantity. Marine Pollutant..... No. In accordance with Part 2.2.1 of the Transportation of Dangerous Goods Regulations (July Proof of Classification..... 2, 2014) - we certify that classification of this product is correct. .

## **SECTION 15: REGULATORY INFORMATION**

CEPA status..... On Domestic Substances List (DSL).

TSCA inventory status..... All components are listed.

This product is considered hazardous under the OSHA Hazard Communication Standard. OSHA..... SARA Title III

Section 302 - extremely hazardous ....... Isophorone Diisocyanate.

substances

Section 311/312 - hazard categories...... Section 313..... Immediate health, delayed health, fire hazard. Methyl Isobutyl Ketone. Hexamethylene diisocyanate.

EPA hazardous air pollutants (HAPS) ...... Ethyl acetate. Hexamethylene diisocyanate. Methyl Isobutyl Ketone. Xylene.

California Proposition 65..... \*WARNING: This product contains a chemical known to the State of California to cause cancer. \*WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

## **SECTION 16: OTHER INFORMATION**

REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com. Prepared by: .....

(800) 387-7981. 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.

2021-11-15. Review Date:

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

2017-11-08

