

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

#### **12354 MEDIUM 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

12354 MEDIUM ACTIVATOR Paints. Accelerator and activator.

Product identifier..... Recommended use and restrictions on ..

Chemical family..... NFPA rating....

HMIS..... 24 hour emergency number:....

Health: 3 fire: 3 reactivity: 2.

H: 3 F: 3 R: 2.

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**



Hazard Classification	Flammable Liquid 2. Aspiration Toxicity 1. Skin Irritation — Category 2. Skin Sensitizer — Category 1. Eye Irritation — Category 2A. Acute Toxicity (Inhalation) — Category 4. Respiratory Sensitizer — Category 1. Specific Target Organ Toxicity — Single Exposure — Category 3. (respiratory system). Carcinogenicity — Category 2. Reproductive Toxicity — Category 2.
Hazard Description	H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. 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 damaging fertility or the unborn child.
Prevention	P261 Avoid breathing mists, vapours and sprays. P271 Use only outdoors or in a well ventilated area. P201 Obtain special instructions before use. P202 Do not handle this product until all safety instructions have been read and understood. P280 Wear protective gloves and eye protection. P264 Wash thoroughly after handling. 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. P284 In case of inadequate ventilation wear respiratory protection. P272 Contaminated work clothing should not be allowed out of the workplace.
Response	P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell. P301 + P310 If swallowed IMMEDIATELY CALL A POISON CONTROL CENTRE and follow instructions provided by the centre. P331 Do NOT induce vomiting. P308 + P313 If exposed or concerned, 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. P303 + P361 + P353 If on skin or in hair: take off all contaminated clothing immediately. Rinse thoroughly with water and use safety shower . P370 + P378 In case of fire - use dry chemical powder, CO2 or foam to extinguish. P342 + P311 If experiencing respiratory symptoms; call poison center or doctor. 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. P321 - For specific treatment see
Storage	section 4 on this SDS. P405 Store locked up. P403 + P235 Store in well ventilated area. Keep cool. P403 + P233 Store in a well ventilated area. Keep container tightly closed.
Disposal	P501 Dispose all unused, waste or empty containers in accordance with local regulations.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS			
CHEMICAL NAME AND SYNONYMS	CAS#	WT. %	
Xylene	1330-20-7	20-30	
n-Butyl Acetate	123-86-4	20-30	
Homopolymer of HDI	28182-81-2	7-15	
Homopolymer of IPDI	53880-05-0	7-15	
Ethyl 3-Ethoxypropionate	763-69-9	3-8	
n-Amyl acetate	628-63-7	3-8	
Methyl Isobutyl Ketone	108-10-1	3-8	
Solvent Naphtha, Light Aromatics	64742-95-6	1-5	
Propylene Glycol Monomethyl Ether Acetate	108-65-6	1-5	
Diisobutyl Ketone	108-83-8	0.5-5	
Propyl Benzene	103-65-1	0.5-5	
1,2,4-Trimethylbenzene	95-63-6	0.5-5	
1,3,5-Trimethylbenzene	108-67-8	0.5-5	
Isophorone Diisocyanate	4098-71-9	0.1-1	
Cumene	98-82-8	0.1-1	

## **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	If irritation persists, seek medical attention. Immediately flush skin with plenty of soap and
Inhalation	water. Remove contaminated clothing. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention.
Ingestion	If ingestion is suspected, contact physician or poison control center immediately. 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,	Harmful if swallowed, in contact with skin or if inhaled. Causes skin and eye irritation. May
whether acute or delayed	cause respiratory irritation. Can cause skin sensitization. This product contains ingredients that are suspected of damaging fertility or the unborn child. This product contains ingredients that may cause cancer. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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.  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.

## **SECTION 05: FIRE-FIGHTING MEASURES**

Suitable and unsuitable extinguishing ..... media

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**

Leak/spill	Ventilate. Eliminate all sources of ignition. Contain the spill. Avoid all personal contact. Evacuate all non-essential personnel. Prevent runoff into drains, sewers, and other waterways. Absorb with earth, sand, or another dry inert material. Shovel into suitable unsealed containers, transport to well-ventilated area (outside) and treat with neutralizing solution: mixture of water (80%) with non-ionic surfactant Tergitol TMN-10 (20%); or water (90%), concentrated ammonia (3-8%) and detergent (2%). 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.
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. Pour decontamination solution over spill area and allow to react for at least 10 minutes. Shovel into suitable containers and add further amounts of decontamination solution. Decontamination solution: Decontamination Solution: Mixture of water (80%) with non-ionic surfactant Tergitol TMN-10 (20%), or; water (90%), concentrated ammonia (3-8%) and detergent (2%). Allow to stand uncovered for 72 hours to let carbon dioxide escape.
Clean up	Decontaminate floor with decontamination solution, letting stand for at least 15 minutes.

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

Precautions for safe handling.....

Avoid skin and eye contact. Do not breathe vapours, mist or dust. Use adequate ventilation. Ensure that equipment is properly bonded and grounded during filling and transferring as product may become electrostatically charged. 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. Wash thoroughly after handling. Decomposition products are highly toxic and irritating. Employee education and training are important.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks, and open flames. Store in tightly closed containers to prevent moisture contamination. Exposure to vapours of heated isocyanates can be extremely dangerous. Do not reseal if contamination is suspected. Do not store above 50 deg C.

## SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	H TLV STEL	OSH, PEL	A PEL STEL	NIOSH REL
Xylene	50 ppm	150 ppm	100 ppm TWA	Not established	Not established
	CA ON: 100ppm (TV	VA); 150ppm (STEL)			
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 HDI	5 mg/m3	Not established	5 mg/m3	Not established	5 mg/m3
	Supplier: 0.5 mg/m3	(TWA)			
Homopolymer of IPDI	Not established	Not established	Not established	Not established	Not established
Ethyl 3-Ethoxypropionate	Not established	Not established	Not established	Not established	Not established
n-Amyl acetate	50 ppm/15 minutes	100 ppm	100 ppm	Not established	100 ppm
Methyl Isobutyl Ketone	50 ppm	75 ppm	100 ppm	Not established	50 ppm / STEL 75 ppm
	ON: 20 ppm (TWA),	75 ppm (STEL)			
Solvent Naphtha, Light Aromatics	Not established	Not established	500 ppm (2000 mg/m3) TWA	Not established	350 mg/m3 TWA
Propylene Glycol Monomethyl Ether Acetate	Not established	Not established	Not established	Not established	Not established
Diisobutyl Ketone	25 ppm	Not established	50 ppm	Not established	25 ppm
Propyl Benzene	Not established	Not established	Not established	Not established	Not established
1,2,4-Trimethylbenzene	25 ppm	Not established	Not established	Not established	25 ppm

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

INGREDIENTS	TWA AC	CGIH TLV STEL	OSHA PEL	PEL STEL	NIOSH REL
1,3,5-Trimethylbenzene	Not established	Not established	Not established	Not established	25 ppm
Isophorone Diisocyanate	0.005 ppm	Not established	Not established	Not established	0.005 ppm skin
Cumene	50 ppm	Not established	50 ppm TWA	Not established	Not established
Personal Protective Equi Eye/type		Chemical safety goggles a should not be worn when with the worn when with the world with an organic of	working with this chem of isocyanates exceed to be worn. A positive proparatus is recommen vapour cartridge and permitted only for short the exposure limit). Then airborne concentral propriate exposure limitation. Do not exceed to Butyl rubber. Neopresendling any food. Clothes. Wear imperviulations. Beye wash stations shore and handling of the prical ventilation to conchanical exhaust ventile the process equipment of be emitted. Standard	nical. If the exposure limit or a pressure, supplied-air reduced. At least an air-purparticulate pre-filters mu periods of time (< 1 ho ne use of a positive prestions are not known or it or spraying is performithe use limits of the response. Nitrile rubber. Practious protective clothing. Audid be available. Educatoroduct. The trol exposure levels belation should be used at at, or during purging oper reference sources regarded.	re not known, spirator or a ifying respirator st be worn. ur) at relatively low ssure air supplied airborne solvent ned in a confined pirator. ice good hygiene,  te and train ow airborne t sources of air rations, to capture arding industrial

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

Appearance/Physical state	No data. 10.6. 0.9. Not available. 56.75.
v 100001ty	17.0 300 Zailli #Z.

# **SECTION 10: STABILITY AND REACTIVITY**

Chemical stability	Stable at normal temperatures and pressures.
Reactivity	Avoid heat, sparks and flames. Explosive reactions can occur in the presence of strong
	oxidizing agents.
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	Water, amines, strong bases, alcohols. Copper alloys. Alumina. Silica gel. Chromium
discharge, shock or vibration	trioxide. Perchloric acid. Xylene:. May attack plastics, rubber and coatings.
Hazardous decomposition products	See hazardous combustion products section 5.



SECTION 4	1. TOVICOLOCI	ICAL INFORMATION
SECTION 1	I: IOXICOLOGI	ICAL INFORMATION

INGREDIENTS		LC50	LD50
Xylene		6350 ppm 4 hours rat	>3523 mg/kg rat oral
n-Butyl Acetate		>33 mg/L vapour, 5.2 mg/L (rat) dust/mist	10760 mg/kg (rat, oral) 14112 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)
Homopolymer of IPDI		Not Available	Not Available
Ethyl 3-Ethoxypropionate		>998 ppm 6 hours	4,309 mg/kg rat oral 4,080 mg/kg rabbit dermal
n-Amyl acetate		>976 ppm 4 hours rat	6500 mg/kg rat oral 8359 mg/kg rabbit dermal
Methyl Isobutyl Ketone		8.2 - 16.4 mg/L 4 hours rat	2080 mg/kg rat oral >16,000 mg/kg rabbit dermal
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
Propylene Glycol Monomethyl Ether Acetate		Not Available	8,532 mg/kg (rat oral) >5,000 mg/kg (rabbit dermal)
Diisobutyl Ketone		>2,300 ppm 4 hours	5,285 mg/kg rat oral >2,000 mg/kg rat dermal
Propyl Benzene		Not Available	6,040 mg/kg rat oral
1,2,4-Trimethylbenzene		>2,000 ppm 48 hours rat	3,280 mg/kg rat oral
1,3,5-Trimethylbenzene		Not Available	Not Available
Isophorone Diisocyanate		123 mg/m3 4 hours rat	>1,000 mg/kg rat oral 1,060 mg/kg rat dermal
Cumene		No Data	50 PPM, SKIN
Skin contact	sensitized can experience allergic reaction with symptoms of reddening, itching, swelling and rash. Cured product is difficult to remove.  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. Causes runny nose, sore throat, coughing, chest discomfort, difficult breathing and reduced pulmonary functioning. Persons with preexisting, nonspecific bronchial hyperreactivity can respond to concentrations below the exposure limit with similar symptoms as well as asthma attack. Exposure well above the exposure limit may lead to bronchitis, bronchial spasm and pulmonary edema. Chemical or hypersensitive pneumonitis, with flu-like symptoms has also been reported. These symptoms can be delayed up to several hours after exposure. Solvent vapours may be irritating to the eyes, nose and throat, resulting in redness, burning and itching of eyes, dryness of the throat and tightness in the chest. Breathing of high vapour concentrations may cause anesthetic effects and serious health effects. Excessive inhalation of vapours can cause respiratory irritation, dizziness, headache, nausea and asphyxiation.  May be harmful or fatal if swallowed. Aspiration of material into lungs can cause chemical pneumonitis which can be fatal. May cause central nervous system effects such as headache, nausea, vomiting and weakness.		
Ingestion			
Carcinogenicity of material			



## **SECTION 11: TOXICOLOGICAL INFORMATION**

Methyl Isobutyl Ketone is known by the State of California to cause adverse fetal Reproductive effects.....

developmental 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.

Sensitizing capability of material..... May cause sensitization by inhalation. May cause sensitization by skin contact.

# **SECTION 12: ECOLOGICAL INFORMATION**

Environmental..... Do not allow to enter waters, waste water or soil. Persistence and degradability.....

Not available.

# **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.

## **SECTION 14: TRANSPORT INFORMATION**

UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - This product meets TDG Classification..... 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).

IATA Classification (Air).....

Refer to 49CRF 172.101 for additional non-bulk packaging requirements.
UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II. Limited Quantity.

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..... Potential marine pollutant.

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. 1,2,4-Trimethylbenzene. Methyl Isobutyl Ketone. Xylene.

EPA hazardous air pollutants (HAPS) ......

Cumene. Hexamethylene diisocyanate. Methyl Isobutyl Ketone. Xylene.

California Proposition 65.....

\*\*\* ! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause birth defects or other reproductive harm. (Benzene (D)). (Methyl Isobutyl Ketone (D)). \*\*\* ! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause cancer . (Benzene). (Cumene). (Ethyl benzene). (Methyl Isobutyl Ketone (C)).

information, go to www.P65Warnings.ca.gov.

# **SECTION 16: OTHER INFORMATION**

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

Telephone number:..... (800) 387-7981.

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

2018-06-26

