

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

12364 MEDIUM ACTIVATOR FOR 12362 PRODUCT:

SECTION 01: IDENTIFICATION

Product identifier..... 12364 MEDIUM ACTIVATOR FOR 12362

Other means of identification

Mixture. Paints. Accelerator and activator.

Initial supplier identifier.....

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); 24 hour emergency number:.....

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

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

NFPA rating...... Health: 2 Fire: 4 Reactivity: 1.

HMIS...... H: 2 F:4 R: 1.

SECTION 02: HAZARD IDENTIFICATION



Hazard Classification	Flammable Liquid 2. 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. (respiratory system). (narcotic effects).
Signal Word	DANGER.
Hazard Description	H225 Highly 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
1 Teverition	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	P303 + P361 + P353 If on skin or in hair: take off all contaminated clothing immediately.
response illimination	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.
3	P405 Store locked up.
Disposal	P501 Dispose all unused, waste or empty containers in accordance with local regulations.
Note	

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS			
CHEMICAL NAME AND SYNONYMS	CAS#	WT. %	
Homopolymer of HDI	28182-81-2	30-60	
tert-Butyl acetate	540-88-5	15-40	
4-Chlorobenzotrifluoride	98-56-6	10-30	



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SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

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

SECTION 04: FIRST-AID MEASURES

Remove all contaminated clothing and immediately wash the exposed areas with copious Skin contact..... amounts of water for a minimum of 30 minutes or up to 60 minutes for critical body areas. If irritation persists, seek medical attention. Eye contact..... In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Obtain medical attention. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is Inhalation..... difficult, give oxygen, obtain medical attention. If ingestion is suspected, contact physician or poison control center immediately. If Ingestion..... 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. Harmful if swallowed, in contact with skin or if inhaled. Causes severe skin and eye irritation. Can cause skin sensitization. Vapors have a narcotic effect and may cause Most important symptoms and effects, whether acute or delayed headache, fatique, dizziness and nausea. May cause respiratory irritation. Treat victims symptomatically. In the event of an incident involving this product ensure that Additional information..... 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 thehazardous 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. Thermal decomposition products are toxic. May include:. Oxides of carbon (CO, CO2). Hydrogen cyanide. Oxides of nitrogen. Dense black smoke. Thermal decomposition may release isocyanate vapors. Under hot acidic conditions:. Isobutylene. Acetic acid. 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

No action shall be taken involving any personal risk or without suitable training. 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. Take precautions against static discharge. Equipment should be grounded.

Methods and materials for containment and cleaning up Leak/spill.....

Ventilate. Eliminate all sources of ignition. Evacuate all non-essential personnel. Avoid all personal contact. Contain the spill. 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%). Allow to stand uncovered for 72 hours to let carbon dioxide escape. 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.

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. Prevent accumulation of electrostatic charges. Ground handling equipment. Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. 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. Handle and open container with care. Employees should wash hands and face before eating or drinking.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks, and open flames. Keep container closed when not in use. Store away from oxidizing and reducing materials. Store away from sunlight. Avoid contact with moisture. Attacks some types of rubber, plastics and coatings. Do not store above 40 deg c.



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SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	ACG TWA	IH TLV STEL	OSHA PEL	PEL STEL	NIOSH REL
Homopolymer of HDI	5 mg/m3 Supplier: 0.5 mg/m3	Not established	5 mg/m3	Not established	5 mg/m3
tert-Butyl acetate	200 ppm	Not established	200 ppm EL)	Not established	200 ppm
Appropriate engineering controls. Provide natural or mechal exposure limits. Local mec contamination, such as op gases and fumes that may ventilation (ie. ACGIH induadequate ventilation. Exploration Exploration (ie. ACGIH) Personal Protective Equipment Gloves/ type. Wear skin protection equipment the nature of the work to be rubber. Contact glove sup Liquid chemical goggles. Contact glove sup Liquid chemic		Not established Not established Not established anical ventilation to control exposure levels below airborne chanical exhaust ventilation should be used at sources of air pen process equipment, or during purging operations, to capture by be emitted. Standard reference sources regarding industrial ustrial ventilation) should be consulted for guidance about losion-proof exhaust ventilation. In the selection of skin protection equipment depends on the performed. The following gloves are recommended: Butyl poplier for recommendations. Chemical safety goggles and full faceshield if a splash hazard its recommended. Wear an appropriate, properly fitted respirator exceed the recommended exposure limits.			
Medical surveillance	re W co	edical supervision of all commended. These should be conditions, chronic bronch sensitization should be agnosed as sensitized to	ould include preemploy est (FEC, FVC as a mir litis, other chronic resp excluded from working	yment and periodic med nimum). Persons with a iratory diseases or recu g with isocyanates. Ond	lical examinations asthmatic-type arring skin eczema be a person is

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state	Liquid.
Colour	Light yellow.
Odour	Solvent odour.
Odour threshold (ppm)	Not available.
pH	Not applicable.
Melting / Freezing point (deg C)	Not available.
Initial boiling point / boiling range (deg C).	Not available.
Flash point (deg C), method	4°C. (estimate; lowest flash point ingredient).
Evaporation rate	Not available.
Flammability (solids and gases)	Not applicable. Flammable liquid.
Upper flammable limit (% vol)	10.5.
Lower flammable limit (% vol)	0.9.
Vapour pressure (mm Hg)	Not available.
Vapour density (air=1)	Not available.
Relative Density (Specific Gravity)	1.053.
Pounds / USG	8.79.
Solubility	Not available.
Partition coefficient — n-octanol/water	Not available.
Auto ignition temperature (deg C)	Not available.
Decomposition temperature	Not available.
Viscosity	14 sec. Zahn #2.
VOC (less water)	0.0.
% Volatile by volume	0.0.

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 or other materials that react with isocyanates may cause

polymerization.

Keep away from heat. Incompatible with strong oxidizers. Water, amines, strong bases, Conditions to avoid, including static discharge, shock or vibration alcohols. Nitrates. Acids. Copper alloys.



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SECTION 10: STABILITY AND REACTIVITY

Incompatible materails..... Hazardous decomposition products......

Strong oxidizing agents. Amines. Acids. Alkalies. Nitrates. Plastics. Copper alloys. Water. No hazardous decomposition products when stored and handled correctly. 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)
tert-Butyl acetate	>2,230 mg/m3 4 hou	rs rat 4,100 mg/kg (rat, oral); >2,000 mg/kg (rabbit, dermal)
4-Chlorobenzotrifluoride	4479 ppm	>6,800 mg/kg (rat oral); >2,700 mg/kg (rabbit dermal)
Route of exposure	Eye contact. Skin contact. Inhalation.	

Symptoms related to the physical, chemical and toxicological characteristics

Effects of acute exposure.....

The aromatic hydrocarbon solvents in this product can be irritating to the eyes, nose and throat. In high concentration, they may cause central nervous system depression and narcosis characterized by nausea, lightheadedness and dizziness from overexposure by inhalation. Can cause moderate skin irritation. Skin irritation signs and symptoms may include a burning sensation, redness, swelling and blisters. May be absorbed through the skin. May cause drying or flaking of the skin. 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. Persons with pre-existing, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV with similar symptoms, as well as asthma attack. Exposure well above the TLV or PEL 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. Effects are usually reversible. Inhalation (acute)..... 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. 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 Breathing high concentrations of vapour may cause anesthetic effects and serious health effects. Prolonged or repeated exposure may result in skin sensitization. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal. Chronic exposure to organic solvent vapors have been associated with various neurotoxic effects including permanent brain and/or nervous system damage, kidney, liver, blood damage and reproductive effects among women. Symptoms may include nausea, vomiting, abdominal pain, headache, impaired memory, loss of coordination, insomnia and breathing difficulties. Excessive inhalation of vapours can cause respiratory irritation, dizziness, headache, nausea and asphyxiation. 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.

have indicated that respiratory sensitization can result from skin contact with diisocyanates. May cause drowsiness or dizziness. May cause respiratory irritation.

ATE mix (oral): . >5000 mg/kg. ATE mix (dermal): . >2800 mg/kg . ATE mix (inhalation):

Carcinogenicity of material.....

No component of this product present at levels greater than or equal to 0.1% Isocyanates are known to cause skin and respiratory sensitization in humans. Animal tests

Reproductive effects..... Sensitizing capability of material.....

Effects of chronic exposure.....

Inhalation (chronic).....

Specific Target Organ Toxicity Acute Toxicity Estimate (ATE).....

SECTION 12: ECOLOGICAL INFORMATION

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

Other adverse effects..... Do not allow to enter waters, waste water or soil.

791 mg/m3



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SECTION 13: DISPOSAL CONSIDERATIONS

contaminated packaging

Information on safe handling for disposal . This material and its container must be disposed of as hazardous waste. Avoid release to and methods of disposal, including any the environment. 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
DOT Classification (Road)	the Limited Quantity exemption when packaged in containers less than 5 liters. UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - Ltd Qty (1 litre). Refer to 49CRF 172.101 for additional non-bulk packaging requirements.
IATA Classification (Air)	UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II. Limited Quantity.
IMDG Classification (Marine)	Do not ship by air without checking appropriate IATA regulations. UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - EmS: F-E S-E. Limited Quantity. Check IMDG regulations for limited quantity exemptions.
Marine Pollutant	No.
Proof of Classification	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	This product is considered hazardous under the OSHA Hazard Communication Standard. None. Immediate health, delayed health, fire hazard. None above De minimus % limit.
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.
	cancer of reproductive toxicity. For more information, go to www.Fostwarnings.ca.gov.

SECTION 16: OTHER INFORMATION

Prepared by: Telephone number: Disclaimer:	REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com. (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
Review Date:	relate to its use in combination with any other material or in any other process. 2022-11-30.