

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

PRODUCT: 12542 FAST ACTIVATOR FOR 12540

SECTION 01: IDENTIFICATION

Product identifier..... 12542 FAST ACTIVATOR FOR 12540

Other means of identification

Mixture.

use

Paints. Accelerator and activator.

Initial supplier identifier.....

Pro Form Products Ltd. 604 McGeachie Drive

24 hour emergency number:.....

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 **.

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

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

SECTION 02: HAZARD IDENTIFICATION



nazara Giaconicationi	Irritation — Category 2A. Acute Toxicity (Inhalation) — Category 4. Respiratory Sensitizer — Category 1. Specific Target Organ Toxicity — Single Exposure — Category 3. (narcotic
	effects). (respiratory system).
Signal Word	DANGER.
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. H334 May cause allergy or asthma symptoms or breathing difficulties 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
. 1010111011111111111111111111111111111	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. P284 In case of inadequate ventilation wear respiratory protection.
Response	P370 + P378 In case of fire - use dry chemical powder, CO2 or foam to extinguish. P303 +
response	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. P342 + P311 If experiencing respiratory symptoms; call poison
	center or doctor. 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	P501 Dispose all unused, waste or empty containers in accordance with local regulations.
Note	This product mixture has been classified based on its ingredients.

Hazard Classification...... Flammable Liquid 3. Skin Irritation — Category 2. Skin Sensitizer — Category 1. Eye

1.1020011 12012111011110111101111011					
SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS					
CHEMICAL NAME AND SYNONYMS	CAS#	WT. %			
Homopolymer of HDI	28182-81-2	40-70			
4-Chlorobenzotrifluoride	98-56-6	10-30			
n-Butyl Acetate	123-86-4	7-13			
Light aromatic naphtha*	64742-95-6	1-5			
Hexamethylene -1,6-Diisocyanate	822-06-0	0.1-1			
< <the a="" actual="" as="" concentration(s)="" secre<="" td="" trade="" withheld=""><td>et>> .</td><td></td><td></td></the>	et>> .				
*Light aromatic naphtha (64742-95-6) contains:	*				

^{*}Light aromatic naphtha (64742-95-6) contains:

SECTION 04: FIRST-AID MEASURES

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention. If ingestion is suspected, contact physician or poison control center immediately. Do not induce vomiting. Rinse mouth with water. 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. Remove all contaminated clothing and immediately wash the exposed areas with copious amounts of water for a minimum of 30 minutes or up to 60 minutes for critical body areas. If irritation persists, seek medical attention. In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at Eye contact..... least 15 minutes. Check for and remove any contact lenses, if safe and easy to do so. Obtain medical attention. Most important symptoms and effects, Harmful if swallowed, in contact with skin or if inhaled. Causes skin and eye irritation. Can cause skin sensitization. May cause respiratory irritation. May cause allergy or asthma whether acute or delayed symptoms or breathing difficulties if inhaled. High vapour concentrations may be irritating to the respiratory tract. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. 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

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

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. 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 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. Ventilate area, eliminate all sources of ignition, sound alarm, avoid all skin and eye contact and avoid breathing vapours.

Methods and materials for containment and cleaning up



^{1,2,4-}trimethylbenzene (<32%), Cumene (<1.1%), and xylene (<2.2%)

SECTION 06: ACCIDENTAL RELEASE MEASURES

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 1-800-424-9300. If transportation spill occurs in Canada, call Canutec at (613) 996-6666.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling.....

Do not breathe vapours, mist or dust. Use adequate ventilation. 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. Decomposition products are highly toxic and irritating. Ensure that equipment is properly bonded and grounded during filling and transferring as product may become electrostatically charged. Wash thoroughly after handling. 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. Do not reseal if contamination is suspected. Exposure to vapours of heated isocyanates can be extremely dangerous. Avoid: Water, Amines, Strong bases, Alcohols, Copper alloys.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA AC	GIH TLV STEL	OSH <i>A</i> PEL	A PEL STEL	NIOSH REL	
Homopolymer of HDI	5 mg/m3 Supplier: 0.5 mg/n	Not established	5 mg/m3	Not established	5 mg/m3	
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 (T	WA), 150ppm (STEL)				
Light aromatic naphtha*	Not established	Not established	500 ppm (2000 mg/m3) TWA	Not established	350 mg/m3 TWA	
Hexamethylene -1,6-Diisocyanate	0.005 ppm	Not established	Not established	Not established	0.005 ppm	
Appropriate engineering controls						
Eye/typeI		Liquid chemical goggles. Contact lenses should not be worn when working with this chemical.				
Gloves/ type			be performed. The foll prene. In the case of n gloves cannot be accu	owing gloves are reconnixtures, consisting of surately estimated.	nmended :. Nitrile everal substances,	
Clothing/type Footwear/type		Wear adequate protective Safety boots per local reg		ious protective clothing		

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

Emergency showers and eye wash stations should be available. Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees on the safe use and handling of the product. Medical supervision of all employees who handle or come in contact with isocyanates is Other/type.....

Medical surveillance.....

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. These should include preemployment and periodic medical examinations with pulmonary function test (fev, fvc as a minimum). Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrant 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..... Liquid. Colour..... Clear to pale yellow. Characteristic odour. Odour..... Odour threshold (ppm)..... Not available. Not applicable. pH..... Melting / Freezing point (deg C)..... Not available. Initial boiling point / boiling range (deg C). Flash point (deg C), method..... > 100° C. 29 °C. (estimate; lowest flash point ingredient). Evaporation rate.....Flammability (solids and gases)..... Not available. Not applicable. Flammable liquid. Upper flammable limit (% vol)..... Lower flammable limit (% vol)..... Vapour pressure (mm Hg)..... 10.5. 0.9. Not available. Vapour density (air=1)..... >1. Relative Density (Specific Gravity)..... 1.145. Pounds / USG..... 9.56. Solubility.....Partition coefficient — n-octanol/water..... Practically insoluble in water. Not available. Auto ignition temperature (deg C)..... Not available. Decomposition temperature..... Not available. 15 sec Zahn #2 Viscosity..... VOC (less water)..... 1.32 lb/USG; 158.2 g/L.

SECTION 10: STABILITY AND REACTIVITY

Contact with moisture, other materials that react with isocyanates, or temperatures above Reactivity 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.

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. Oxides of carbon (CO,CO2). Oxides of nitrogen. Hydrogen cyanide. Isocyanates. Hydrogen chloride. Hydrogen fluoride.

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	>33 mg/L vapour, 5.2 mg/L (rat) dust/mist	10760 mg/kg (rat, oral) 14112 mg/kg (rabbit, dermal)	
Light aromatic naphtha*	10.2 mg/L (inhal, hr.)	>3400 mg/kg (oral, rat). >2000 mg/kg (dermal, rabbit)	
Hexamethylene -1,6-Diisocyanate	22 ppm 4 hours rat	738 mg/kg rat oral 593 mg/kg rabbit dermal	



SECTION 11: TOXICOLOGICAL INFORMATION

Route of exposure..... Eye contact. Skin contact. Inhalation. Symptoms related to the physical, chemical and toxicological characteristics Causes skin irritation. Causes reddening, stinging and swelling. Persons previously Skin contact sensitized can experience allergic reaction with symptoms of reddening, itching, swelling and rash. Skin absorption..... Not available. Causes eye irritation. Can cause tearing, reddening and swelling. May cause temporary Eye contact..... corneal damage. Vapours can produce irritation. Symtoms include tearing and reddening. Inhalation (acute)..... 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 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. May cause central nervous system effects such as Ingestion..... headache, nausea, vomiting and weakness. 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. Symptoms including chest tightness, wheezing, cough, Effects of chronic exposure..... shortness of breath or asthma attack, could be immediate or delayed. There are reports that once sensitized, an individual can experience these symptoms upon exposure to dust, cold air or other irritants. This increased lung sensitivity can persist for weeks and, in severe cases, for several years. Sensitization can be permanent. Prolonged or repeated exposure may cause lung damage, including a decrease in lung function. Prolonged vapour contact may cause conjunctivitis. Prolonged skin contact may cause reddening, swelling, rash, scaling, blistering, and in some cases, sensitization. Chronic exposure to organic solvents may cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal. 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.

No component of this product present at levels greater than or equal to 0.1%. Reproductive effects..... Sensitizing capability of material..... May cause sensitization by inhalation. May cause sensitization by skin contact.

SECTION 12: ECOLOGICAL INFORMATION

SECTION 13: DISPOSAL CONSIDERATIONS

Information on safe handling for disposal . and methods of disposal, including any contaminated packaging

Specific Target Organ Toxicity

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.

May cause drowsiness or dizziness. May cause respiratory irritation.

SECTION 14: TRANSPORT INFORMATION

UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group III - This product meets TDG Classification..... the limited quantity exemption when packaged in containers less than 5 liters. UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group III - This product meets 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. IMDG Classification (Marine)..... Limited Quantity. Marine Pollutant..... Potential marine pollutant. 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. .



CEPA status.....

SECTION 15: REGULATORY INFORMATION

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 None. substances Section 311/312 - hazard categories....... Immediate health, delayed health, fire hazard. Section 313..... None above De minimus % limit. EPA hazardous air pollutants (HAPS) Hexamethylene diisocyanate. Xylene. 40CFR63 ***! WARNING: This product can expose you to chemicals including [see below], which California Proposition 65..... are known to the State of California to cause cancer. (Cumene). (Ethyl benzene). more information, go to www.P65Warnings.ca.gov.

SECTION 16: OTHER INFORMATION

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

2021-01-15

