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SAFETY DATA SHEET

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

PRODUCT: PF 12262 SUPER EXPRESS HARDENER 1L

FORM

SECTION 01: IDENTIFICATION

Initial supplier identifier	Wyatt Machine Tools (Rupes) NZ Limited 388 Church Street, Penrose Auckland, New Zealand PH: (09) 525 1000 FAX: (09) 525 1009
Product identifier	PF 12262 SUPER EXPRESS HARDENER 1L
Recommended use and restrictions on	Paints. Accelerator and activator.
use Chemical family	Mixture.
NFPA rating	Health: 2 Fire: 3 Reactivity: 0.
HMIS	H: 2 F: 3 R: 0.
	NZ Emergency 0800 992 881 (0800WYATT1).

SECTION 02: HAZARD IDENTIFICATION



Signal Word Hazard Classification	Flammable Liquid 2. Skin Sensitizer — Category 1. Acute Toxicity (Inhalation) — Category 4. Respiratory Sensitizer — Category 1. Specific Target Organ Toxicity —
Hazard Description	Single Exposure — Category 3. (respiratory system). H225 Highly flammable liquid and vapour. H317 May cause an allergic skin reaction. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation.
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. 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 inadeguate ventilation wear respiratory protection.
Response	
Storage	P235 Keep cool. P403 + P233 Store in a well ventilated area. Keep container tightly closed. P405 Store locked up.
Disposal Note	

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Homopolymer of HDI	28182-81-2	40-70
n-Butyl Acetate	123-86-4	30-60
Hexamethylene -1,6-Diisocyanate	822-06-0	0.1-1

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SECTION 04: FIRST-AID MEASURES In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at Eye contact..... least 15 minutes. Obtain medical attention. 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. Skin contact..... Use a polyglycol based cleanser if available. If irritation persists, seek medical attention. Wash clothing before reuse. Inhalation..... 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 Ingestion..... 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 Harmful if swallowed, in contact with skin or if inhaled. Can cause skin sensitization. May Most important symptoms and effects, cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause whether acute or delayed respiratory irritation. May cause mild skin irritation. May cause eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary 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. An individual having a skin or pulmonary sensitization reaction to this material should be removed from exposure to any isocyanate.

SECTION 05: FIRE-FIGHTING MEASURES

Suitable and unsuitable extinguishing media	"Alcohol" foam, CO2, dry chemical. 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. Do not use water in a jet.
Specific hazards arising from thehazardous product, such as the nature of any hazardous combustion products	Oxides of carbon (CO, CO2). Oxides of nitrogen. Hydrogen cyanide. Thermal decomposition may release isocyanate vapors.
Special protective equipment andprecautions for fire-fighters	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. 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%). 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. Absorb isocyanates with sawdust or other absorbent. Decontamination Solution: Mixture of water (90%) with non-ionic transite TMN 10 (20%), or water (90%).
		water (80%) with non-ionic surfactant Tergitol TMN-10 (20%), or; water (90%), concentrated ammonia (3-8%) and detergent (2%). Add about 10 parts of decontamination solution per part of isocyanate. Allow to stand in the open air for 7 to 14 days prior to disposal.
_	Clean up	Decontaminate floor with decontamination solution, letting stand for at least 15 minutes.
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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 which product is packed. Ground handling equipment. Avoid all skin contact and ventila adequately, otherwise wear an appropriate breathing apparatus. Avoid breathing vapou or 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. Do not store above 35 deg c.	



SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	OS	HA PEL STEL	NIOSH REL
Homopolymer of HDI	5 mg/m3	Not established	5 mg/m3	Not established	5 mg/m3
n-Butyl Acetate	50 ppm	150 ppm	150 ppm	200 ppm	150 ppm / STEL 200 ppm
Hexamethylene -1,6-Diisocyanate	0.005 ppm	Not established	Not established	Not established	0.005 ppm
Respiratory/type Eye/type Gloves/ type Clothing/type Footwear/type Other/type		 when contaminant levels Liquid chemical goggles. exists. Chemical resistant gloves Wear adequate protective Safety boots per local reg 	exceed the recomm Chemical safety goo s. Nitrile rubber. Buty e clothes. gulations. eye wash stations s	ended exposure limits. ggles and full faceshield I rubber. hould be available. Em	d if a splash hazard
Appropriate engineering controls		Provide natural or mecha exposure limits. Local me contamination, such as of gases and fumes that ma ventilation (ie. ACGIH ind adequate ventilation.	anical ventilation to c echanical exhaust ve pen process equipm by be emitted. Standa	control exposure levels ntilation should be used ent, or during purging c ard reference sources r	below airborne d at sources of air operations, to capture egarding industrial

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Odour. Solv Odour threshold (ppm). Not Vapour pressure (mm Hg). < Vapour density (air=1). >1. pH. Not Relative Density (Specific Gravity). 1.03 Melting / Freezing point (deg C). Not Solubility. Not Initial boiling point / boiling range (deg C). > 10 Evaporation rate. Not Flash point (deg C), method. 22C Auto ignition temperature (deg C). > 37 Upper flammable limit (% vol). 1.2. Partition coefficient — n-octanol/water. Not % Volatile by weight. 37.9 Decomposition temperature. Not VOC. 3.27	: yellow. ent odour. Fruity characteristic. available. 1.3 mmHg @ 25°C. applicable. 3 - 8.62 lb/gal. available. igible. Reacts slowly with water to liberate CO2 gas. 0° C. available. (estimate; lowest flash point ingredient).
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SECTION 10: STABILITY AND REACTIVITY

Reactivity	Avoid heat, sparks and flames. 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.
Conditions to avoid, including static	Keep away from heat. Incompatible with strong oxidizers. Water, amines, strong bases,
discharge, shock or vibration	alcohols. Copper. Alumina. Silica gel. Peroxides. Chromium trioxide. Perchloric acid.
Hazardous decomposition products	By fire:. Oxides of nitrogen. Oxides of carbon (CO,CO2). Isocyanates. Dense black smoke.

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
n-Butyl Acetate	390 ppm (4 hr.)	10768 mg/kg (rat oral) 17600 mg/kg (rabbit dermal)

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SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS		LC50	LD50
Hexamethylene -1,6-Diisocyanate		22 ppm 4 hours rat	738 mg/kg rat oral 593 mg/kg rabbit dermal
Route of exposure Effects of acute exposure	throat. In high concentrat	on solvents in this product can be irr tion, they may cause central nervou y nausea, lightheadedness and dizz	is system depression and
Effects of chronic exposure	Breathing high concentra effects. Contains an ingre application of large amou Prolonged or repeated ex	tions of vapour may cause anesthe edient which caused reproductive e unts to skin. These effects have not xposure may result in skin sensitiza g and inhaling this product may be l	ffects in rats after repeated been reported in humans. tion. Intentional misuse by
Skin absorption	Chronic skin exposure to chronic inhalation.	solvents may cause effects similar	to those identified under
Sensitizing capability of material	Isocyanates are known to have indicated that respin	o cause skin and respiratory sensiti ratory sensitization can result from s	zation in humans. Animal tests skin contact with diisocyanates.
Carcinogenicity of material	None of the components	present in this material at concentr NTP, OSHA or ACGIH as a carcino	ations equal to or greater than
Specific Target Organ Toxicity	May cause respiratory irr	itation.	-

SECTION 12: ECOLOGICAL INFORMATION

Environmental..... Persistence and degradability.....

Do not allow to enter waters, waste water or soil. Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

contaminated packaging

Information on safe handling for disposal. Empty containers must be handled with care due to product residue. This material and its container must be disposed of as hazardous waste. Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

TDG Classification	
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).
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.
IMDG Classification (Marine)	Do not ship by air without checking appropriate IATA regulations.
	Limited Quantity. Check IMDG regulations for limited quantity exemptions.
Marine Pollutant Proof of Classification	
	2, 2014) - we certify that classification of this product is correct.

SECTION 15: REGULATORY INFORMATION

CEPA status TSCA inventory status OSHA SARA Title III Section 302 - extremely hazardous	This product is considered hazardous under the OSHA Hazard Communication Standard.
substances Section 311/312 - hazard categories Section 313 EPA hazardous air pollutants (HAPS) 40CFR63	Immediate health, delayed health, fire hazard. Hexamethylene diisocyanate.
California Proposition 65	This product does not contain any chemical(s) known to the State of California to cause cancer or reproductive toxicity. This substance is classified hazardous according to the EPA Hazardous Substances
(NZ) HSNO Classifications (NZ) HSNO Group Standard	(Classification) Notice 2017. 3.1B. 6.5B. 6.1D. 6.5A. 6.1E. 6.9B. Not assigned.

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SECTION 16: OTHER INFORMATION

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