

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

PRODUCT: PF 17090 STRUCTURAL ADHESIVE BLACK 10 MINS PART A

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 17090 STRUCTURAL ADHESIVE BLACK 10 MINS PART A

Adhesive applications. Recommended use and restrictions on ...

Chemical family.....

Hazard rating NFPA rating..... Health: 2 Fire: 1 Reactivity: 1. H: 2 F: 1 R: 1.

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

NZ Emergency 0800 992 881 (0800WYATT1).

SECTION 02: HAZARD IDENTIFICATION

Aromatic isocyanate prepolymer.



Signal Word..... DANGER. Acute Toxicity 4. Respiratory Sensitizer — Category 1. Skin Sensitizer — Category 1. Hazard Classification..... Carcinogenicity — Category 2. Eye Irritant 2. Skin Irritation — Category 2. Specific Target Organ Toxicity — Single Exposure — Category 3. H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. Hazard Description..... H317 May cause an allergic skin reaction. H320 Causes 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. P202 Do not handle this product until all safety instructions have been read and Prevention..... understood. P251 Do not pierce or burn container, even after use. P261 Avoid breathing mists, vapours and sprays. P264 Wash thoroughly after handling. P270 Do not eat drink or smoke while using this product. P271 Use only outdoors or in a well ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves and eye protection. P284 In case of inadequate ventilation wear respiratory protection. The reacted product is an inert plastic when fully cured, and as such, is non hazardous. Note Exposure to unreacted chemicals can occur when handling the individual components in pails or when using cartridges from the time of dispensing until the mixed material has

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS			
CHEMICAL NAME AND SYNONYMS	CAS#	WT. %	
Benzene, 1,1'-methylenebis[4-isocyanato- (MDI)	101-68-8	15-40	
Talc	14807-96-6	10-20	
SCAVENGER	497-18-7	10-30	
Quartz	14808-60-7	<1.0	

SECTION 04: FIRST-AID MEASURES

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.



cured.

SECTION 04: FIRST-AID MEASURES

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	Rinse mouth with water. Give 1 to 2 glasses of water to drink. 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.
Additional information	In all cases, if irritation persists seek medical attention. Eye: stain for evidence of corneal

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 thehazardous product, such as the nature of any hazardous combustion products
Special protective equipment andprecautions for fire-fighters

Unusual fire / explosion hazards.....

Dry chemical. Carbon dioxide. Foam. In cases of larger fires, water spray should be used.

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. During a fire, isocyanate vapours and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosive rupture. Heat will cause pressure buildup and may cause explosive rupture.

Reaction between water or foam and hot MDI can be vigorous.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak/spill	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. 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 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%).
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
	1-800-424-9300. If transportation spill occurs in Canada, call Canutec at (613) 996-6666.
Minor spills	Large quantities may be pumped into closed, but not sealed, containers for disposal. Absorb isocyanates with sawdust or other absorbent. Pour decontamination solution over
Willion Spills	spill area and allow to react for at least 10 minutes. Cover spill area with suitable absorbent
	material (e.g., sand, earth, sawdust, vermiculite, Oil-Dri, Kitty Litter, etc.). Saturate absorbent material with neutralizing solution. 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
Classin	hours, to allow any gases to escape.
Clean up	Decontaminate spill area with decontamination solution. Area can then be washed with soap and water.

SECTION 07: HANDLING AND STORAGE

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. Wash thoroughly after handling. 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. Employee education and training are important.

Conditions for safe storage, including any incompatibilities

Storage temperature min/max 34-50C. 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	CGIH TLV STEL	OSH	IA PEL STEL	NIOSH REL
INGREDIENTS	IVVA	SIEL	ILET	SIEL	KEL
Benzene, 1,1'-methylenebis[4-isocy anato- (MDI)	0.005 ppm	Not established	0.005 ppm TWA	0.005 ppm AB OEL TWA	0.05 mg/m3
Talc	2 mg/m3	Not established	2 mg/m3 TWA	3 mg/m3 - QUE	Not established
SCAVENGER	No data	No data	No data	No data	No data
	1 mg/m3				
Quartz	0.025 mg/m3	Not Established	0.1 mg/m3 Respiratory	Not Established	0.05 mg/m3
Personal Protective Equ	ipment				
Eye/type		Chemical safety goggles. exists. Contact lenses should be contact lenses.	Chemical safety gog	gles and full faceshield	if a splash hazard
Respiratory/type		Whenever concentrations respiratory protection mu self-contained breathing a equipped with an organic However, this should be concentrations (at or nea respirator is mandatory w levels are 10 times the apspace or with limited ventrations.	s of isocyanates exce st be worn. A positive apparatus is recommo vapour cartridge and permitted only for sho the exposure limit). Then airborne concent porpopriate exposure li	ed the exposure limit or pressure, supplied-air rended. At least an air-pulparticulate pre-filters must periods of time (< 1 hours of a positive pretrations are not known of mit or spraying is performations.	are not known, espirator or a urifying respirator ust be worn. our) at relatively low essure air supplied r airborne solvent med in a confined
Gloves/ type		Chemical resistant gloves wash thoroughly before h	s. Butyl rubber. Neopi	rene. Nitrile rubber. Prac	ctice good hygiene,
Clothing/type		Wear adequate protective		sleeves and trousers to	prevent dermal
Footwear/typeOther/type		exposure. Safety boots per local reg Eye wash facility and em	ergency shower shou		Educate and train
Appropriate engineering	controls	employees on the safe us Provide natural or mecha exposure limits. Local me contamination, such as o	anical ventilation to co echanical exhaust ver	ontrol exposure levels be tilation should be used a	at sources of air
Medical surveillance		gases and fumes that may be emitted. Standard reference sources regarding industrial ventilation (ie. ACGIH industrial ventilation) should be consulted for guidance about adequate ventilation. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.			idance about so r filters to reduce with isocyanates is edical examinations asthmatic-type curring skin eczema nce a person is permitted. These n pulmonary function thronic bronchitis, action should be
Exposure limits					

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state Colour	Viscous liquid. Beige.
OdourOdour threshold (ppm)	No data. Not available.
Vapour pressure (mm Hg) Vapour density (air=1)	
pHRelative Density (Specific Gravity)	No data. 1.288 g/cm3 @ 20°C - 10.72 lb/USG @ 25°C.
Melting / Freezing point (deg C)	Not available. Reacts with water. >200°C (>392°F).
Evaporation rateFlash point (deg C), method	<1. (butyl acetate = 1). >100°C, >212°F.
Auto ignition temperature (deg C)	Not available. No data. No data. Not available.
VOCViscosity	0.0 g/L - 0.0 lb/usg. Not available.

SECTION 10: STABILITY AND REACTIVITY

SECTION 11: TOXICOLOGICAL INFORMATION

177C, may cause polymerization.

INGREDIENTS		LC50	LD50
Benzene, 1,1'-methylenebis[4-isocyanato- (N	/IDI)	490 mg/m3 4 hr 0.369 mg/L 4 hr	9,200 mg/kg rat oral >7,900 mg/kg rabbit dermal
Talc		Not available	Not available
SCAVENGER		No data	No data
Quartz		Not Available	Not Available
Route of exposure Effects of acute exposure Effects of chronic exposure	Causes skin irritation. Causes reddening, stinging and swelling. Persons previously sensitized can experience an allergic reaction with symptoms of reddening, itching, swelling and rash. Cured product is difficult to remove. Contact with MDI can cause discolouration. Causes eye irritation. Can cause tearing, reddening and swelling. May cause temporary corneal damage.		ns of reddening, itching, intact with MDI can cause ddening and swelling. May an an allergic evious repeated overexposure ion which will cause them to exposure limit. Symptoms eath or asthma attack, could be d, an individual can experience tants. This increased lung everal years. Sensitization can ictivitis. Talc has been shown to g of talc may result in any cause death from respiratory
Sensitizing capability of material	worse with physical active lsocyanates are known to have indicated that respired to the control of the control	rity o cause skin and respiratory sensiti ratory sensitization can result from	zation in humans. Animal tests
Carcinogenicity of material	The Talc in this product i	may contain Quartz (<1). Quartz (C	rystalline Silica) is listed by
Toxicological Data	IARC in Group 1 as a ca	rcinogen	

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. Industrial incineration is the preferred method. Empty containers retain product residue; observe all precautions for the product. Decontaminate containers prior to disposal. Empty decontaminated containers should be crushed to prevent reuse. Do not heat or cut empty containers with electric or gas torch as vapours and gases may be toxic.

SECTION 14: TRANSPORT INFORMATION

TDG Classification..... Not regulated. IATA Classification (Air).....IMDG Classification (Marine)..... Not regulated. Not regulated.

Marine Pollutant..... Potential marine pollutant.

SECTION 15: REGULATORY INFORMATION

WHMIS 1988 classification..... D2A. D2B. CEPA status..... On Domestic Substances List (DSL).

None.

Section 313.....

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

SARA Title III

Section 302 - extremely hazardous None.

substances

Section 311/312 - hazard categories...... Immediate health, delayed health. EPA hazardous air pollutants (HAPS) Methylene Diphenyl Diisocyanate (MDI).

40CFR63

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

This product does not contain any chemical(s) known to the State of California to cause California Proposition 65.....

cancer or reproductive toxicity.

This substance is classified hazardous according to the EPA Hazardous Substances (NZ) Statement.....

(Classification) Notice 2017.

(NZ) HSNO Classifications..... 6.1D. 6.5A. 6.5B. 6.7B. 6.4A. 6.3A. 6.1E. 6.9B.

(NZ) HSNO Group Standard..... Surface Coatings/Colourants - Toxic 6.7 HSR002679.

SECTION 16: OTHER INFORMATION

Prepared by: REGULATORY AFFAIRS.

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

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 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.

Date of the latest revision of the safety ... 2019-11-15

data sheet

