

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

PF 17000A STRUCTRAL ADHESIVE BLACK 35MINS PART A PRODUCT:

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 17000A STRUCTRAL ADHESIVE BLACK 35MINS PART A

Recommended use and restrictions on .. Adhesive applications.

Chemical family.....

Aromatic isocyanate prepolymer. Hazard rating

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

HMIS.....24 hour emergency number:.... NZ Emergency 0800 992 881 (0800WYATT1).

SECTION 02: HAZARD IDENTIFICATION



Signal Word Hazard Classification	Carcinogenicity — Category 2. Eye Irritant 2. Skin Irritation — Category 2. Specific Target
Hazard Description	Organ Toxicity — Single Exposure — Category 3. H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. 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.
Prevention	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 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
Note	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. 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 cured.

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.



SECTION 04: FIRST-AID MEASURES

Skin contact	
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.....

Leak/spill.

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.

Isolate area and keep unauthorized people away. Do not walk through spilled material.

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

SECTION 06: ACCIDENTAL RELEASE MEASURES

	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. Large quantities may be pumped into closed, but not sealed, containers for disposal.
Minor spills	Absorb isocyanates with sawdust or other absorbent. Pour decontamination solution over 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 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

	Ι .		T		1
INGREDIENTS	ITWA AG	CGIH TLV STEL	IPEL OSHA	A PEL STEL	NIOSH REL
III OKE BIETTO	1		1		1,422
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 Eye/type Respiratory/type Gloves/ type Clothing/type Footwear/type Other/type Appropriate engineering Medical surveillance	controls	Chemical safety goggles. exists. Contact lenses show the provided in the sex of the sex	ould not be worn where of isocyanates exceed to be worn. A positive apparatus is recomme vapour cartridge and bermitted only for shor the exposure limit). Then airborne concentropropriate exposure limit propriate exposure should be anical ventilation to concentrate and propriate exposure limit propriate exposure exposure limit propriate exposure expos	working with this chem d the exposure limit or a pressure, supplied-air rended. At least an air-pu particulate pre-filters mut periods of time (< 1 hc. he use of a positive prestions are not known on the use limits of the reserve. Nitrile rubber. Practiculate prevaitions are not known on the use limits of the reserve. Nitrile rubber. Practiculate and trousers to product. In the use limits of the reserve. Nitrile rubber product. In the use limits of the reserve. Nitrile rubber product. In the use of the product of the used and the us	nical. are not known, espirator or a rifying respirator ust be worn. our) at relatively low essure air supplied r airborne solvent med in a confined spirator. tice good hygiene, orevent dermal Educate and train elow airborne at sources of air erations, to capture parding industrial dance about s or filters to reduce with isocyanates is dical examinations asthmatic-type curring skin eczema are a person is permitted. These pulmonary function hronic bronchitis, ation should be
Exposure limits					

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state	>1. No data. 1.288 g/cm3 @ 20°C - 10.72 lb/USG @ 25°C. Not available. Reacts with water. >200°C (>392°F). <1. (butyl acetate = 1). >100°C, >212°F. Not available. No data. No data. Not available.
VOCViscosity	0.0 g/L - 0.0 lb/usg. Not available.
v 10003ity	Not available.

SECTION 10: STABILITY AND REACTIVITY

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS		LC50	LD50	
Benzene, 1,1'-methylenebis[4-isocyanato- (MDI)		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	
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, ntact with MDI can cause addening and swelling. May h, scaling, blistering, and in a may result in an allergic revious repeated overexposure tion which will cause them to exposure limit. Symptoms eath or asthma attack, could be ed, an individual can experience itants. This increased lung everal years. Sensitization can nctivitis. Talc has been shown to g of talc may result in ay cause death from respiratory	
Sensitizing capability of material		rity o cause skin and respiratory sensit ratory sensitization can result from		
Carcinogenicity of material	The Talc in this product	may contain Quartz (<1). Quartz (C	Crystalline Silica) is listed by	
Toxicological Data IARC in Group 1 as a ca		rcinogen		

SECTION 12: ECOLOGICAL INFORMATION

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

..... 1 otorida mariro pondiaria

SECTION 15: REGULATORY INFORMATION

CEPA status...... On Domestic Substances List (DSL).

Section 313......<u>N</u>one.

OSHA.........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.

cancer or reproductive toxicity.

(Classification) Notice 2017.

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

SECTION 16: OTHER INFORMATION

Prepared by: REGULATORY AFFAIRS.

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

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 .. data sheet

2019-11-15

