

Chemical family.....

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

PRODUCT: 17100 EPOXY PANEL BONDER (90 MIN)

SECTION 01: IDENTIFICATION

Product identifier..... 17100 EPOXY PANEL BONDER (90 MIN) Initial supplier identifier..... Pro Form Products Ltd.

604 McGeachie Drive Milton, Ontario L9T3Y5

Tel (905) 878-4990 Fax (905) 878-1189

24 hour emergency number:..... For transportation emergencies (in Canada) call CANUTEC 1-888-226-8832 (CAN-UTEC); IN THE UNITED STATES CALL CHEMTREC 1-800-424-9300.

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

Adhesive applications, for industrial use only-keep out of reach of children. This product Recommended use and restrictions on ... should not be used for any other purpose other than the ones described in this section.

Epoxy adhesives.

Hazard rating
NFPA rating..... Health: 3 Fire: 1 Reactivity: 0.

H: 3 F: 1 R: 0.

SECTION 02: HAZARD IDENTIFICATION





Signal Word	DANGER.
Hazard Classification	Skin Corrosion — Category 1. Skin Sensitizer — Category 1. Serious Eye Damage — Category 1. Specific Target Organ Toxicity — Repeated Exposure — Category 1.
Hazard Description	Carcinogen 1A. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin
Tidzard Docomption	reaction. H318 Causes serious eye damage. H350 This product contains ingredients that
	may cause cancer. H372 Causes damage to the liver and kidneys through prolonged or repeated exposure.
Prevention	P201 Obtain special instructions before use. P202 Do not handle this product until all safety instructions have been read and understood. P260 Do not breathe mist, vapours, or
	spray. P261 Avoid breathing mists, vapours and sprays. P264 Wash thoroughly after
	handling. P270 Do not eat drink or smoke while using this product. 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	P301 + P330 + P331 If swallowed, rinse mouth and do not induce vomiting. P302 + P352 - If on skin: wash with plenty of water. P303 + P361 + P353 If on skin or in hair: take off all
	contaminated clothing immediately. Rinse thoroughly with water and use safety shower .
	P310 - Immediately call your local poison control centre. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. 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. P308 + P313 If exposed or concerned, get medical advice/attention. P321 - For specific treatment see section 4 on this SDS.
	P337 + P313 - If eye irritation persists get medical attention. P362 + P364 - Take off
Storage	contaminated clothing and wash before reuse. P405 Store locked up.
Disposal	P501 Dispose all unused, waste or empty containers in accordance with local regulations.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS			
CHEMICAL NAME AND SYNONYMS	CAS#	WT. %	
PART A:			
POLYMER	25068-38-6	50-60	
CYCLOHEXANEDIMETHANOL DIGLYCIDYL ETHER	14228-73-0	10-15	
3-(Trimethoxysilyl) Propyl Glycidil	2530-83-8	1.5-5	



SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS			
Cristobalite (SiO2)	14464-46-1	1-1.5	
Quartz	14808-60-7	0.5-1	
Carbon Black	1333-86-4	0.1-0.5	
PART B:			
9,12-OCTADECADIENOIC ACID-BASED POLYAMIDOAMINE	68541-13-9	30-40	
Polyglycol Diamine	4246-51-9	10-15	
2,4,6-Tris(Dimethylaminomethyl) Phenol	90-72-2	5-10	
1H-Imidazole	288-32-4	1.5-5	
1,5-Pentanediamine, 2-methyl-	15520-10-2	1.5-5	
Bis-((Dimethylamino)methyl) phenol	71074-89-0	1-1.5	
CRISTOBALITE	14464-46-1	0.1-0.5	

SECTION 04: FIRST-AID MEASURES

In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at Eve contact. least 15 minutes. Check for and remove any contact lenses, if safe and easy to do so. Obtain medical attention

Immediately flush skin with plenty of soap and water. Remove contaminated clothing. Wash clothing before reuse. Do not peel solidified product off the skin. If irritation persists, seek medical attention.

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is Inhalation..... difficult, give oxygen, obtain medical attention.

Do not induce vomiting. Rinse mouth with water. Give 1 to 2 glasses of water to drink. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs have victim lean forward with head down to prevent aspiration of fluid into the lungs. Get

Additional information.....

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. In all cases, if irritation persists seek medical attention.

SECTION 05: FIRE-FIGHTING MEASURES

Suitable and unsuitable extinguishing Dry chemical. Carbon dioxide. In cases of larger fires, water spray should be used. media

Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products Special protective equipment and

precautions for fire-fighters

Unusual fire / explosion hazards.....

Oxides of carbon (CO, CO2). Oxides of nitrogen. Phenols. Formaldehyde. 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

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

> 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.

SECTION 06: ACCIDENTAL RELEASE MEASURES

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling.....

Avoid skin and eye contact. Do not breathe vapours, mist or dust. Use adequate ventilation. Decomposition products can be highly toxic and irritating. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed to vapour or spray mist. Warning properties (irritation of the eyes, nose and throat or odour) are not adequate to prevent chronic overexposure from inhalation. Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Wear respiratory protection if material is heated, sprayed, used in confined space, or if exposure limit is exceeded. Employee education and training are important.

Conditions for safe storage, including any incompatibilities

Store in tightly closed containers to prevent moisture contamination. Store in a cool, dry and well ventilated area. 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 AC	GIH TLV STEL	OSH. PEL	A PEL STEL	NIOSH REL
POLYMER	Not Established	Not Established	Not Established	Not Established	Not Established
CYCLOHEXANEDIMETH ANOL DIGLYCIDYL ETHER	Not established	Not established	Not established	Not established	Not established
3-(Trimethoxysilyl) Propyl Glycidil	Not Established	Not Established	Not Established	Not Established	Not Established
Cristobalite (SiO2)	0.025 mg/m3	Not Established	0.05 mg/m3	Not Established	0.05 mg/m3
Quartz	0.025 mg/m3	Not Established	0.1 mg/m3 Respiratory	Not Established	0.05 mg/m3
Carbon Black	3 mg/m3	Not established	3.5 mg/m3	Not established	3.5 mg/m3
	CA ON: 3 mg/m3 ((Inhalable) TWA			
9,12-OCTADECADIENOI C ACID-BASED POLYAMIDOAMINE	Not established	Not established	Not established	Not established	Not established
Polyglycol Diamine	Not Established	Not Established	Not Established	Not Established	Not Established
2,4,6-Tris(Dimethylamino methyl) Phenol	Not established	Not established	Not established	Not established	Not established
1H-Imidazole	Not Established	Not Established	Not Established	Not Established	Not Established
1,5-Pentanediamine, 2-methyl-	Not Established	Not Established	Not Established	Not Established	Not Established
Bis-((Dimethylamino)meth yl) phenol	Not established	Not established	Not established	Not established	Not established
CRISTOBALITE	0.025 mg/m3	Not established	Not established	Not established	0.05 mg/m3
Eye/typeRespiratory/type		Chemical safety goggles. Chemical safety goggles and full faceshield if a splash hazard exists. Contact lenses should not be worn when working with this chemical. In case of insufficient ventilation, wear suitable respiratory equipment. An approved air purifying respirator with organic vapour cartridges and particulate prefilter can be used to minimize exposure. However, this should be permitted only for short periods of time (< 1 hour) at relatively low concentrations (at or near the exposure limit). Protection provided by air-purifying respirators is limited. The use of a positive pressure air supplied respirator is mandatory when airborne concentrations are not known or airborne solvent levels are 10 times the appropriate exposure limit or spraying is performed in a confined space or with limited ventilation. Use NIOSH approved respirator or equipment. Do not exceed the use			
Gloves/ type		limited ventilation. Use Ni limits of the respirator. Chemical resistant gloves			
Clothing/type		hygiene, wash thoroughly Wear adequate protective	before handling any f	food.	•
Footwear/type		exposure. Safety boots per local reg	gulations.		

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye wash facility and emergency shower should be in close proximity. Educate and train employees on the safe use and handling of the product. Other/type.....

Mechanical ventilation systems used to ventilate corrosive storage or process areas must be designed with components that are corrosion resistant. Ventilate adequately. Exhaust Appropriate engineering controls..... air may need to be cleaned by scrubbers or filters to reduce environmental contamination. Vent work area to ensure airborne concentrations are below the current occupational

exposure limits. Avoid breathing mists; if general ventilation or local exhaust is inadequate, persons exposed to mists should wear approved breathing devices.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state Colour Odour	Part A:. Viscous liquid.	Part B:. Viscous liquid.
Colour	Part A:. Black.	Part B:. Tan.
Odour	Part A:. No data.	Part B:. Very faint, amine-like.
Odour threshold (ppm)	Part A:. Not available.	Part B: . No data.
Vapour pressure (mm Hg)	Part A:. <0.100 hPa @ 20C.	Part B:. <10.000 hPa @ 20C.
Odour threshold (ppm) Vapour pressure (mm Hg) Vapour density (air=1)	Part A:. No data.	Part B:. >1.
pH	Part A: . No data.	Part B: . No Data.
Relative Density (Specific Gravity)	Part A:. 1.089 g/cm3 @ 20C. 9.06 lb/ga 25C.	l @ 25C. Part B:. 1.13 g/cm3 @ 20C. 9.4 lb/gal @
Melting / Freezing point (deg C)	Part A: . Not available.	
Solubility	Part A:. Practically insoluble in water.	Part B: . Insoluble in water.
Initial boiling point / boiling range (deg C).	Part A:. >150°C (>302°F). Part A: . Not available. Part	Part B:. No data.
Evaporation rate	Part A: Not available. Part	t B: . 1.0. Ethyl ether = 1.0.
Flash point (deg C), method	Part A:. >99°C (>210°F) Setaflash Close	ed Cup. Part B:. >93.4°C, >200°F.
Auto ignition temperature (deg C)	Part A:. Not available.	Part B:. No data.
Upper flammable limit (% vol)	Part A:. Not available. Part A:. No data.	Part B: . No Data.
Lower flammable limit (% vol)	Part A: . No Data.	Part B: . No data.
Partition coefficient — n-octanol/water		
VOC (less water) Viscosity	Part A: . 2.55 lb/USG - 305.57 g/L.	Part B: . No data.
Viscosity	Part A: . Not available.	Part B: . No data.

SECTION 10: STABILITY AND REACTIVITY

Chemical stability	Stable at normal temperatures and pressures.
Reactivity	Contact with moisture and other materials will react with isocyanates.
Conditions to avoid	Excessive heat, flames and sparks, exposure to air and moisture.
Conditions to avoid, including static	Acids, amines, bases, fluorides, oxidizing agents, peroxides, water.
discharge, shock or vibration	

Hazardous decomposition products...... Carbon oxides, formaldehydes, hydrocarbons, hydrogen cyanide, nitrogen oxides, phenols, silicone polymers.
Product will not undergo hazardous polymerization.

Possibility of hazardous reactions.....

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
POLYMER	No Data	2,020 mg/kg oral rat
CYCLOHEXANEDIMETHANOL DIGLYCIDYL ETHER	No Data	2,500 mg/kg oral (rat)
3-(Trimethoxysilyl) Propyl Glycidil	>5.3 mg/L	8,025 mg/kg (oral rat) 4,250 mg/kg (dermal rabbit)
Cristobalite (SiO2)	No Data	8030 mg/kg oral, rat 4248 mg/kg dermal, rabbit
Quartz	Not Available	Not Available
Carbon Black	Not available	>10,000 mg/kg (oral rat) 3,000 mg/kg (dermal rabbit)
9,12-OCTADECADIENOIC ACID-BASED POLYAMIDOAMINE	No Data	No data
Polyglycol Diamine	2.9 mg/L rat	1,690 mg/kg oral rat >2150 mg/kg dermal rabbit
2,4,6-Tris(Dimethylaminomethyl) Phenol	>0.5 mg/L 1Hr Inhalation, Rat	1200 mg/kg oral rat 1280 mg/kg dermal rabbit
1H-Imidazole	No Data	970 mg/kg oral rat
1,5-Pentanediamine, 2-methyl-	4.9 mg/L	1,690 mg/kg oral rat
Bis-((Dimethylamino)methyl) phenol	Not Available	Not Available

SECTION 11: TOXICOLOGICAL INFORMATION			
INGREDIENTS	LC50	LD50	
CRISTOBALITE	No data	No data	
Route of exposure Effects of acute exposure	Eye contact. Skin contact. Inhalation. SKIN: Irritant. Can cause reddening, itching and swe skin. Contact with fibrous glass or its dust can cause aerosols or vapours are irritating. Can cause tearing, INHALATION: Breathing this material may be harmfu concentrations above the exposure limits can irritate membranes in the respiratory tract. This can cause a chest discomfort, difficulty breathing and reduced pull Swallowing this material may be harmful or fatal. Syr and intestinal irritation, abdominal pain and vomiting SKIN: Can cause permanent skin damage. EYE: Ca	skin irritation. EYE: Product liquid, , reddening and swelling. If or fatal. Vapour/mists at (burning sensation) the mucous a runny nose, sore throat, coughing, monary functioning. INGESTION: mptoms can include severe stomach of blood.	
Carcinogenicity of material	SKIN: Can cause permanent skin damage. EYE: Čan cause permanent eye damage and can injure the cornea and cause blindness. INHALATION: Breathing this material may be harmful or fatal. Prolonged and repeated exposure of dust may result in progressive and permanent lung disease which may cause death from respiratory and/or heart failure. INGESTION: Swallowing this material may be harmful or fatal. Symptoms can include severe stomach and intestinal irritation, abdominal pain and vomiting of blood. Swallowing this mater may cause burns and destroy internal tissues. Low blood pressure and shock may also occur as a result of severe tissue injury.		

SECTION 12: ECOLOGICAL INFORMATION

No known reproductive effects.

silica in the form of quartz or cristobalite.

SECTION 13: DISPOSAL CONSIDERATIONS

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

Reproductive effects.....

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.

evidence in humans and experimental animals for the carcinogenicity of inhaled crystalline

SECTION 14: TRANSPORT INFORMATION

SECTION 15: REGULATORY INFORMATION

CEPA status..... On Domestic Substances List (DSL). TSCA inventory status..... All components are listed. 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. None. Section 313..... EPA hazardous air pollutants (HAPS) None. 40CFR63



SECTION 16: OTHER INFORMATION

Prepared by: Telephone number:.....

REGULATORY AFFAIRS.

(800) 387-7981.

2022-11-30. 2015-07-30

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.

data sheet

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