



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

PRODUCT: PF 7116 EPOXY PANEL BONDER 30 MIN

SECTION 01: IDENTIFICATION

Product identifier..... PF 7116 EPOXY PANEL BONDER 30 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 **.
Recommended use and restrictions on .. Adhesive applications. This product should not be used for any other purpose other than
use the ones described in this section. for industrial use only-keep out of reach of children .
Chemical family..... Mixture.
Hazard rating
NFPA rating..... Part A: Health: 3 Fire: 1 Reactivity: 0. Part B: Health: 2 Fire: 1 Reactivity: 0.
HMIS..... Part A: H: 3 F: 1 R: 0. Part B: H: 2 F: 1 R: 0.

SECTION 02: HAZARD IDENTIFICATION



Signal Word..... DANGER.
Hazard Classification..... Acute Toxicity 4. Skin Corrosion 1C. Serious Eye Damage — Category 1. Skin Sensitizer
— Category 1. Carcinogen 1A. Specific Target Organ Toxicity — Repeated Exposure —
Category 1. Specific Target Organ Toxicity — Single Exposure — Category 3.
Hazard Description..... H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin
burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious
eye damage. H335 May cause respiratory irritation. 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. 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.
Response P301 + P310 If swallowed IMMEDIATELY CALL A POISON CONTROL CENTRE and
follow instructions provided by the centre. 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 . P304 + P340 - If inhaled
remove person to fresh air and keep comfortable for breathing. P308 + P313 If exposed or
concerned, get medical advice/attention. P314 - Get medical advice/attention if you feel
unwell. P321 - For specific treatment see section 4 on this SDS. P330 Rinse mouth. P331
Do NOT induce vomiting. P333 + P313 If skin irritation or rash occurs, get medical
advice/attention. P362 + P364 - Take off contaminated clothing and wash before reuse.
P304 + P312 If inhaled call a poison control centre or doctor; remove person to fresh air
and follow instructions from the poison control centre. 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. P312 Call a POISON CENTER/doctor if you
feel unwell.
Storage..... P403 + P233 Store in a well ventilated area. Keep container tightly closed. P405 Store
locked up.
Disposal..... P501 Dispose all unused, waste or empty containers in accordance with local regulations.

PRODUCT: PF 7116 EPOXY PANEL BONDER 30 MIN**SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
PART A:		
Silica, vitreous	60676-86-0	20-30
Triethylenetetramine	112-24-3	5-10
Phenol	108-95-2	5-10
2,4,6-Tris(Dimethylaminomethyl) Phenol	90-72-2	1.5-5
1,5-Pentanediamine, 2-methyl-	15520-10-2	1.5-5
1H-Imidazole	288-32-4	1.5-5
Cristobalite (SiO ₂)	14464-46-1	0.1-0.5
PART B:		
EPOXY RESIN	25068-38-6	70-80
Silica, vitreous (2)	60676-86-0	5-10
DIMER ACID DIGLYCIDYL ESTER	68475-94-5	1.5-5
3-(Trimethoxysilyl) Propyl Glycidil	2530-83-8	1.5-5
Alkyl glycidyl ether	68609-97-2	1.5-5
Carbon Black	1333-86-4	0.1-0.5

SECTION 04: FIRST-AID MEASURES

Eye contact.....	In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Obtain medical attention.
Skin contact.....	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. Obtain medical attention immediately. Wash clothing before reuse. Do not peel solidified product off the skin.
Inhalation.....	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention.
Ingestion.....	If ingestion is suspected, contact physician or poison control center immediately. Do not induce vomiting. Phenol concentrations greater than 1.5% produce irritation and greater than 5% are corrosive; vomiting can cause further damage to the mouth and throat. Vomiting and diarrhea may occur spontaneously. If spontaneous vomiting occurs have victim lean forward with head down to prevent aspiration of fluid into the lungs. Do not dilute the swallowed material, since this may enhance its absorption. Never give anything by mouth to an unconscious person.
Additional information.....	Treat victims symptomatically. 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. Water spray. Foam.
Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products	Acid vapours, ammonia, carbon dioxide and carbon monoxide, carboxylic acids, formaldehyde, hydrogen, hydrogen cyanide (hydrocyanic acid), methanol, nitrogen oxides (NO _x), phenols, silicon dioxide, silicone polymers, various hydrocarbons. By fire: protect against potentially toxic and irritating fumes.
Special protective equipment and precautions for fire-fighters	Firefighter should be equipped with self-contained breathing apparatus and full protective clothing to protect against potentially toxic and irritating fumes. Do not spray fire directly. A solid stream of water directed into the hot burning liquid could cause frothing. DO NOT direct a solid stream of water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Frothing can be violent and possibly endanger any firefighter standing too close to the burning liquid. Cool containers with water spray.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak/spill.....	Ventilate. Eliminate all sources of ignition. Evacuate all non-essential personnel. Contain the spill. Avoid all personal contact. 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
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PRODUCT: PF 7116 EPOXY PANEL BONDER 30 MIN**SECTION 06: ACCIDENTAL RELEASE MEASURES**

Leak/spill..... (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. Use a heat gun and a scraper to remove cured adhesive. Prior to using a heat gun, ensure that the surface can withstand the heat generated by the gun.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling..... Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. Avoid breathing vapours or mist. Handle and open container with care. Containers of this material may be hazardous when empty. Since emptied containers retain product residues (vapour, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Employees should wash hands and face before eating or drinking.

Conditions for safe storage, including any incompatibilities Store in a cool, dry and well ventilated area. Keep container closed when not in use.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Silica, vitreous	0.1 mg/m ³	Not Established	0.1 mg/m ³ (dust)	Not Established	0.05 mg/m ³ (dust)
Triethylenetetramine	5 ppm	Not Established	5 ppm	Not Established	19 mg/m ³ (REL)
Phenol	19 mg/m ³	Not established	19 mg/m ³	Not established	5 ppm
2,4,6-Tris(Dimethylamino methyl) Phenol	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
1H-Imidazole	Not Established	Not Established	Not Established	Not Established	Not Established
Cristobalite (SiO ₂)	0.025 mg/m ³	Not Established	0.05 mg/m ³	Not Established	0.05 mg/m ³
EPOXY RESIN	Not established	Not established	Not established	Not established	Not established
Silica, vitreous (2)	0.1 mg/m ³	Not Established	0.1 mg/m ³ (dust)	Not Established	0.05 mg/m ³ (dust)
DIMER ACID DIGLYCIDYL ESTER	Not established	Not established	Not established	Not established	Not established
3-(Trimethoxysilyl) Propyl Glycidil	Not Established	Not Established	Not Established	Not Established	Not Established
Alkyl glycidyl ether	Not Established	Not Established	Not Established	Not Established	Not Established
Carbon Black	3 mg/m ³	Not established	3.5 mg/m ³	Not established	3.5 mg/m ³
	CA ON: 3 mg/m ³ (Inhalable) TWA				

Eye/type..... Chemical safety goggles should be worn. Plastic face shields should be worn in addition to safety goggles for complete face protection.

Respiratory/type..... Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits. A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible in such instances. Protection provided by air-purifying respirators is limited. Use a positive pressure air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

Gloves/ type..... Chemical resistant gloves.

Clothing/type..... Wear adequate protective clothes.

Footwear/type..... Safety boots per local regulations.

Other/type..... Emergency showers and eye wash stations should be available.

Appropriate engineering controls..... Local exhaust should be used to maintain levels below the exposure limits. Mechanical ventilation systems used to ventilate corrosive storage or process areas must be designed with components that are corrosion resistant.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state..... Part A: Liquid. Part B: Liquid.

Colour..... Part A: Tan. Part B: Black.

Odour..... No data.

Odour threshold (ppm)..... Not available.

PRODUCT: PF 7116 EPOXY PANEL BONDER 30 MIN**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Vapour pressure (mm Hg).....	Not available.	
Vapour density (air=1).....	No data.	
Relative Density (Specific Gravity).....	Part A: 1.0 g/cm3 @ 23 C.	Part B: 1.1 g/cm3 @ 23 C.
pH.....	No data.	
Melting / Freezing point (deg C).....	Not available.	
Solubility.....	No data.	
Initial boiling point / boiling range (deg C).	No data.	
Evaporation rate.....	Not available.	
Flash point (deg C), method.....	Part A: >100°C, >212°F.	Part B: > 100.
Auto ignition temperature (deg C).....	No data.	
Upper explosive limit (% vol).....	No data.	
Lower explosive limit (% vol).....	No data.	
Partition coefficient — n-octanol/water.....	Not available.	
VOC (less water).....	2.55 lb/USG - 305.57 g/L.	
Viscosity.....	Not available.	

SECTION 10: STABILITY AND REACTIVITY

Chemical stability.....	Stable at normal temperatures and pressures.
Reactivity	Avoid heat, sparks and flames. Avoid exposure to air and moisture.
Conditions to avoid, including static discharge, shock or vibration	1,3-butadiene, acids, acrylates, alcohols, aldehydes, aluminum, amines, bases, brass, bronze, copper, copper alloys, fluorides, halogenated hydrocarbons, halogens, iron, ketones, lead, magnesium, nickel, nitrates, organic absorbents such as sawdust, peat moss, ground corn cobs, etc., oxidizing agents, peroxides, reducing agents, strong alkalis, water, zinc, peroxides.
Hazardous decomposition products.....	See hazardous combustion products section 5.
Possibility of hazardous reactions.....	Will not occur under normal temperature and pressure.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Silica, vitreous	No Data	No Data
Triethylenetetramine	No Data	2,500 mg/kg rat oral 805 mg/kg rabbit dermal
Phenol	No data	414 mg/kg (oral, rat)
2,4,6-Tris(Dimethylaminomethyl) Phenol	>0.5 mg/L 1Hr Inhalation, Rat	1200 mg/kg oral rat 1280 mg/kg dermal rabbit
1,5-Pentanediamine, 2-methyl-	4.9 mg/L	1,690 mg/kg oral rat
1H-Imidazole	No Data	970 mg/kg oral rat
Cristobalite (SiO2)	No Data	8030 mg/kg oral, rat 4248 mg/kg dermal, rabbit
EPOXY RESIN	No data	>20 ml/kg dermal, rabbit 11.4 g/kg oral, rat
Silica, vitreous (2)	No Data	No Data
DIMER ACID DIGLYCIDYL ESTER	No data	No data
3-(Trimethoxysilyl) Propyl Glycidil	>5.3 mg/L	8,025 mg/kg (oral rat) 4,250 mg/kg (dermal rabbit)
Alkyl glycidyl ether	Not determined	26,800 mg/kg (oral rat)
Carbon Black	Not available	>10,000 mg/kg (oral rat) 3,000 mg/kg (dermal rabbit)

Route of exposure.....	Eye contact. Skin contact. Inhalation.
Effects of acute exposure.....	The aromatic hydrocarbon solvents in this product can be irritating to the eyes, nose and throat. In high concentration, they may cause central nervous system depression and narcosis characterized by nausea, lightheadedness and dizziness from overexposure by inhalation.
Effects of chronic exposure.....	Prolonged or repeated exposure may lead to allergic skin reactions. Prolonged or repeated exposure may result in an allergic respiratory reaction in sensitive individuals. May cause damage to the respiratory system, lungs, eyes, skin and central nervous system. Prolonged or repeated exposure may lead to kidney or central nervous system symptoms. This product contains crystalline silica. Excessive long-term exposure to crystalline silica may cause silicosis, a form of disabling, progressive and sometimes fatal fibrotic lung disease. Severe and permanent lung damage may result. Prolonged overexposure to crystalline silica (quartz) dust can cause fibrotic lung damage.

PRODUCT: PF 7116 EPOXY PANEL BONDER 30 MIN**SECTION 11: TOXICOLOGICAL INFORMATION**

Carcinogenicity of material..... Carbon black is known to the State of California to cause cancer and developmental effects.
 Reproductive effects..... No known reproductive effects.

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 . 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..... UN2735 - AMINES, LIQUID, CORROSIVE, N.O.S.(Triethylenetetramine) - Class 8 - PGIII. This product meets the Limited Quantity exemption when packaged in containers less than 5 liters.
 DOT Classification (Road)..... UN2735 - AMINES, LIQUID, CORROSIVE, N.O.S. (Tris-2,4,6-(Dimethylaminomethyl) Phenol) - Class 8 - Packing Group III - This product meets the Limited Quantity exemption when packaged in containers less than 5 liters.
 IATA Classification (Air)..... Amines, liquid, corrosive, n.o.s. (Triethylenetetramine) - Class 8 - UN2735 - PGIII - This product meets limited quantity exemption when maximum net quantity per inner packaging is 0.5 L, and total net quantity per packaging is 1.0 L.
 IMDG Classification (Marine)..... UN2735 - Amines, liquid, corrosive, n.o.s. (Triethylenetetramine) - Class 8 - PGIII - EmS F-A, S-B.
 Marine Pollutant..... Yes.
 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. .

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 substances None.
 Section 311/312 - hazard categories..... Immediate health, delayed health.
 Section 313..... None.
 EPA hazardous air pollutants (HAPS) None.
 40CFR63
 California Proposition 65..... This product contains Carbon Black known to the State of California to cause cancer.

SECTION 16: OTHER INFORMATION

Prepared by: REGULATORY AFFAIRS.
 Telephone number:..... (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 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.
 Review Date:..... 2022-11-30.
 Date of the latest revision of the safety data sheet .. 2015-07-31