



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

PRODUCT: PF 7779 PLOGRIP® URETHANE STRUCTURAL ADHESIVE (10 MIN)

SECTION 01: IDENTIFICATION

Product identifier..... PF 7779 PLOGRIP® URETHANE STRUCTURAL ADHESIVE (10 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. No restrictions on use known.
use
Chemical family
NFPA rating..... Health: 2 Fire: 1 Reactivity: 1.
HMIS..... H: 2 F: 1 R: 1.

SECTION 02: HAZARD IDENTIFICATION



Signal Word..... DANGER.
Hazard Classification..... Sensitization - Respiratory — Category 1. Sensitization - Skin — Category 1. Reproductive Toxicity — Category 2. Serious Eye Damage/Eye Irritation — Category 2A. Skin Corrosion/Irritation — Category 2. Acute Toxicity (Inhalation) — Category 4. Specific Target Organ Toxicity — Single Exposure — Category 3. (Respiratory). Specific Target Organ Toxicity — Repeated Exposure — Category 2. (Respiratory System). (Respiratory Tract).
Hazard Description..... H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure.
Precautionary Statements
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 the mist, vapours, or spray. P261 Avoid breathing mists, vapours and sprays. P264 Wash thoroughly after handling. 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 inadequate ventilation wear respiratory protection.
Response P302 + P352 - If on skin: wash with plenty of water. 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. P312 Call a POISON CENTER/doctor if you feel unwell. P314 - Get medical advice/attention if you feel unwell. P321 - For specific treatment see section 4 on this SDS. P332 + P313 - If skin irritation occurs get medical attention or advice. P333 + P313 If skin irritation or rash occurs, get medical advice/attention. P337 + P313 - If eye irritation persists get medical attention. P342 + P311 If experiencing respiratory symptoms; call poison center or doctor. P362 + P364 - Take off contaminated clothing and wash before reuse.
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.
Other hazards..... The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 7.3084 %.
Note This product mixture has been classified based on its ingredients.

PRODUCT: PF 7779 PLOGRIP® URETHANE STRUCTURAL ADHESIVE (10 MIN)**SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
PART A:		
Polymer	HMIRC # 3486377	10-30
Aluminum Silicates	Non-Hazardous	10-30
Urethane Prepolymer	HMIRC # 3486376	5-10
Benzene, 1,1'-methylenebis[4-isocyanato- (MDI)	101-68-8	15-40
Talc	14807-96-6	7-13
Propylene carbonate	108-32-7	1-5
PART B:		
Talc - B	14807-96-6	10-30
Piperazine	110-85-0	0.1-1

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. Check for and remove any contact lenses, if safe and easy to do so. Protect unharmed eye.
Skin contact.....	Immediately flush skin with plenty of soap and water. Remove contaminated clothing. Wash clothing before reuse. If irritation persists, seek medical attention.
Inhalation.....	Move to fresh air. Keep victim warm and at rest. If unconscious place in recovery position and seek medical advice. Obtain immediate medical attention.
Ingestion.....	Do not induce vomiting. If ingestion is suspected, contact physician or poison control center immediately. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, whether acute or delayed	Pulmonary edema may be delayed. Symptoms may include abdominal pain, nausea, vomiting, and diarrhea. Inhalation may include irritation (nose, throat, airways). Other symptoms may include but not limited to: Headache. Cough. Chest pain. Lung edema (fluid buildup in the lung tissue). Causes skin irritation. Difficulty breathing. Causes serious eye irritation. May cause an allergic skin reaction. Harmful by inhalation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure if inhaled.
Additional information.....	No hazards which require special first aid measures.

SECTION 05: FIRE-FIGHTING MEASURES

Suitable extinguishing media.....	Dry chemical. Carbon dioxide. Foam. Water spray.
Unsuitable extinguishing media.....	Do not use solid water streams or water jet.
Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products	If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. Do not allow run-off from fire fighting to enter drains or water courses. Hazardous combustion products may include but not limited to: Aldehydes, carbon dioxide, carbon monoxide, halogenated hydrocarbons, hydrogen cyanide (hydrocyanic acid), isocyanates, ketones, nitrogen oxides, hydrocarbons, chlorine compounds.
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. 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. Dispose of all runoff water as hazardous waste in accordance with all Local, Provincial and Federal Regulations.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Environmental precautions.....	Do not allow product to leak into drains or waterways. If spill does contaminate waterways then inform authorities.
Personal precautions, protective equipment and emergency procedures	Evacuate personnel to a safe area. Ventilate area. Wear appropriate personal protection equipment.
Methods and materials for containment and cleaning up	Cover spill with inert absorbant material. Sweep up and place in container for proper disposal. Always wear ppe during cleanup. Dispose of waste material in accordance with all Local, Provincial and Federal Regulations.

PRODUCT: PF 7779 PLOGRIP® URETHANE STRUCTURAL ADHESIVE (10 MIN)**SECTION 07: HANDLING AND STORAGE**

Precautions for safe handling..... Avoid formation of aerosol. Use adequate ventilation. Do not breathe vapours, mist or dust. Do not smoke. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Empty container is hazardous. Avoid skin and eye contact. Obtain special instructions before use. Smoking, eating and drinking should be prohibited in the application area. Wear appropriate protective equipment. Dispose of rinse water according to local, Provincial and Federal guidelines.

Conditions for safe storage, including any incompatibilities Keep containers tightly closed in a dry and well ventilated area. Observe label precautions.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Polymer	Not available	Not available	Not available	Not available	Not available
Aluminum Silicates	Not available	Not available	Not available	Not available	Not available
Urethane Prepolymer	Not available	Not available	Not available	Not available	Not available
Benzene, 1,1'-methylenebis[4-isocyanato- (MDI)	0.005 ppm	Not available	0.005 ppm TWA	0.005 ppm AB OEL TWA	0.05 mg/m3
Talc	2 mg/m3 CA ON: 2mg/kg (TWA)	Not available	2 mg/m3 TWA	Not available	2 mg/m3
Propylene carbonate	Not established		Not established		Not established
Talc - B	2 mg/m3 CA ON 2 mg/kg (TWA)	Not available	2 mg/m3 (TWA)	Not available	2 mg/m3
Piperazine	Not available	Not available	Not available	Not available	Not available
Personal Protective Equipment					
Eye/type.....	Liquid chemical goggles. Consult your personal protective equipment supplier for additional recommendations.				
Respiratory/type.....	Whenever concentrations of isocyanates exceed the exposure limit or are not known, respiratory protection must be worn. A positive pressure, supplied-air respirator or a self-contained breathing apparatus is recommended. Consult your personal protective equipment supplier for additional recommendations.				
Gloves/ type.....	Butyl rubber. Dispose of gloves after use. Consult your personal protective equipment supplier for additional recommendations.				
Clothing/type.....	Wear impervious protective clothing. Consult your personal protective equipment supplier for additional recommendations.				
Footwear/type.....	Wear chemical resistant safety boots. Consult your personal protective equipment supplier for additional recommendations.				
Other/type.....	Emergency showers and eye wash stations should be available. Educate and train employees on the safe use and handling of the product.				
Appropriate engineering controls.....	Good general ventilation should be sufficient to control airborne levels.				

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state.....	Part A Viscous Liquid	Part B . Liquid.
Colour.....	Beige	Light Green.
Odour.....	Mild, Musty	Mild, Amine-like.
Odour threshold (ppm).....	Not available	Not available.
pH.....	Mixture is non-soluble (in water)	Mixture is non-soluble (in water).
Melting / Freezing point (deg C).....	Not available	Not available.
Initial boiling point / boiling range (deg C).	>200°C (>392°F)	Not available.
Flash point (deg C), method.....	> 100 °C	> 93.4 °C.
Evaporation rate.....	<1 (butyl acetate = 1)	Not available.
Upper flammable limit (% vol).....	Not determined	Not determined.
Lower flammable limit (% vol).....	Not determined	No data.

PRODUCT: PF 7779 PLOGRIP® URETHANE STRUCTURAL ADHESIVE (10 MIN)**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Vapour pressure (mm Hg).....	<0.013 hPa @ 25C	Not determined.
Vapour density (air=1).....	>1	Not available.
Relative Density (Specific Gravity).....	No data	1.26 g/cm3 (20 °C).
Density.....	1.288 g/cm3 (20 °C)	ca. 1.26 g/cm3 (20 °C).
Solubility.....	Practically insoluble	No data.
Partition coefficient — n-octanol/water.....	Not determined	Not determined.
Auto ignition temperature (deg C).....	Not available	Not available.
Viscosity - Dynamic.....	ca. 20,000 mPa.s	23,000 mPa.s.

SECTION 10: STABILITY AND REACTIVITY

Chemical stability.....	Stable at normal temperatures and pressures.
Reactivity	No decomposition if stored and applied as directed.
Conditions to avoid, including static discharge, shock or vibration	Moisture. Heat. Freezing temperatures.
Possibility of hazardous reactions.....	Product will not undergo hazardous polymerization .
Incompatible materials.....	Acids. Alcohols. Aluminum. Amines. Ammonia. Bases. Copper alloys. Fluorides . Iron. Isocyanates. Oxidizing agents. Oxidizers. Phosphorus and phosphorus-containing compounds. Strong reducing agents. Strong alkalis. Water. Zinc. Humid air.
Hazardous decomposition products.....	Carbon dioxide. Carbon monoxide. Nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Polymer	Not available	LD50 Oral (Rat): > 5,000 mg/kg LD50 Dermal (Rabbit): > 9,400 mg/kg
Aluminum Silicates	Not available	Not available
Urethane Prepolymer	Not available	Not available
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
Propylene carbonate	Not available	>5000 mg/kg (oral, rat) >2000 mg/kg (dermal, rat)
Talc - B	Not available	Not available
Piperazine	Not available	Not available
Route of exposure.....	Eye contact. Ingestion. Inhalation. Skin contact.	
Aspiration Hazard.....	Not classified.	
Serious eye damage/eye irritation.....	Causes serious eye irritation.	
Skin corrosion/irritation.....	Causes skin irritation.	
Respiratory Sensitization.....	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Skin Sensitization.....	May cause an allergic skin reaction.	
Carcinogenicity.....	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC or ACGIH.	
Reproductive effects.....	Suspected of damaging fertility or the unborn child.	
Mutagenicity.....	Not available.	
Teratogenicity.....	Not available.	
STOT-SE.....	May cause respiratory irritation.	
STOT-RE.....	May cause damage to organs (Respiratory system, Respiratory Tract) through prolonged or repeated exposure if inhaled.	

SECTION 12: ECOLOGICAL INFORMATION

Environmental.....	Do not allow to enter waters, waste water or soil.
Bioaccumulative potential.....	No product data available.
Mobility in soil.....	No product data available.
Persistence and degradability.....	No product data 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. Empty drums should be reconditioned by a properly licensed drum recycler. Dispose of waste in accordance with all applicable Federal, Provincial/State and local regulations.

PRODUCT: PF 7779 PLOGRIP® URETHANE STRUCTURAL ADHESIVE (10 MIN)**SECTION 14: TRANSPORT INFORMATION**

TDG Classification.....	Not regulated.
DOT Classification (Road).....	Not regulated.
IATA Classification (Air).....	Not regulated.
IMDG Classification (Marine).....	Not regulated.
Marine Pollutant.....	No.
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).
National Pollutant Release Inventory (NPRI).....	None listed in this product.
Environmental Emergency Regulations.....	None listed in this product.
Categorization of the DSL.....	None listed in this product.
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, fire hazard.
Section 313.....	4,4'-methylenediphenyl diisocyanate.
EPA hazardous air pollutants (HAPS) 40CFR63	Methylene Diphenyl Diisocyanate (MDI).
California Proposition 65.....	(Carbon black - airborne, unbound particles of respirable size). *** ! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause cancer .

SECTION 16: OTHER INFORMATION

Prepared by:	REGULATORY AFFAIRS.
Telephone number:.....	(800) 387-7981.
Date of the latest revision of the safety data sheet	2024-06-11