

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

#### PRODUCT: PF7770 PLIOGRIP® URETHANE STRUCTURAL ADHESIVE PART A (35 MINUTE OPEN)

#### SECTION 01: Chemical product and company identification

Manufactured for..... Pro Form Products Ltd. 604 McGeachie Drive Milton, Ontario L9T3Y5

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

PF7770 PLIOGRIP® URETHANE STRUCTURAL ADHESIVE PART A (35 MINUTE OPEN) Product name..... Recommended use and restrictions on use... (PART A). Adhesive applications. For industrial use only - keep out of reach of children. This product should not be used for any other purpose other than the ones described in

this section.

Aromatic isocyanate prepolymer. Chemical family..... NFPA rating..... Health: 3 Fire: 1 Reactivity: 1.

HMIS..... H: 2\* F: 1 R: 0.

IN THE UNITED STATES CALL INFOTRAC (800) 535-5053. 24 hour emergency number:.....

## SECTION 02: Hazards identification



Signal Word..... DANGER. Hazard Classification..... Skin Irritant 2. Skin Sensitizer 1. Acute Toxicity 3. Respiratory Sensitizer 1. STOT SE 3. STOT RE 1. Hazard Description..... H315 Causes skin irritation. H317 May cause an allergic skin reaction. H331 Toxic if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H372 Causes damage to the liver and kidneys through prolonged or repeated exposure. P264 Wash thoroughly after handling. P280 Wear protective gloves and eye protection. Prevention..... P260 Do not breathe mist, vapours, or spray. P270 Do not eat drink or smoke while using this product. P272 Contaminated work clothing should not be allowed out of the workplace. P271 Use only outdoors or in a well ventilated area. P284 In case of inadequate ventilation wear respiratory protection. P302 + P352 - If on skin: wash with plenty of water. . P362 + P364 - Take off contaminated clothing and wash before reuse. P333 + P313 If skin irritation or rash occurs, get medical Response ..... advice/attention. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing, P311 Call a POISON CENTRE or doctor, P342 + P311 If experiencing respiratory symptoms; call poison center or doctor. P321 - For specific treatment see section 4 on this SDS. P403 + P233 Store in a well ventilated area. Keep container tightly closed. P405 Store Storage..... locked up. P501 Dispose all unused, waste or empty containers in accordance with local regulations. Disposal.....

SECTION 03: Composition/Information on Ingredients			
HAZARDOUS INGREDIENTS	CAS#	WT. %	
4,4'-DIPHENYLMETHANE DIISOCYANATE (MDI)	101-68-8	30-40	
Talc	14807-96-6	10-15	
2,4-DIPHENYLMETHANE DIISOCYANATE (MDI)	5873-54-1	0.5-1	

#### **SECTION 04: First aid measures**

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



#### PRODUCT: PF7770 PLIOGRIP® URETHANE STRUCTURAL ADHESIVE PART A (35 MINUTE OPEN)

#### **SECTION 04: First aid measures**

Skin contact..... 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. Inhalation.....

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen, obtain medical attention.
Rinse mouth with water. Never give anything by mouth to an unconscious person. If Ingestion..... spontaneous vomiting occurs have victim lean forward with head down to prevent aspiration of fluid into the lungs. Obtain medical attention immediately.

Treat victims symptomatically. 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 media Dry chemical. Carbon dioxide. Water spray. Aldehydes, carbon dioxide and carbon monoxide, halogenated hydrocarbons, hydrogen Hazardous combustion products.....

Additional information.....

Unusual fire / explosion hazards.....

Minor spills.....

Clean up.....

cyanide (hydrocyanic acid), isocyanates, ketones, nitrogen compounds, nitrogen oxides (nox), toxic fumes carbon dioxide and carbon monoxide, hydrogen cyanide (hydrocyanic acid), isocyanates, nitrogen oxides (nox), toxic fumes, aldehydes, ketones, halogenated

hydrocarbons.

Special fire fighting procedures..... 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.

> Absorb isocyanates with sawdust or other absorbent. 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. Do not use neutralizing solution on a large spill. Decontaminate spill area with decontamination solution. Area can then be washed with

> soap and water. 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. Use a solvent such as; isopropanol, methyl ethyl ketone, or acetone, to clean up up residual curative.

#### **SECTION 07: Handling and storage**

Handling procedures..... 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. Handle in accordance with good industrial hygiene and safety practices. Warning properties (irritation of the eyes, nose and throat or odour) are not adequate to prevent chronic overexposure from inhalation. 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. Storage needs.....

Store in tightly closed containers to prevent moisture contamination. Store in a cool, dry and well ventilated area. Exposure to vapours of heated isocyanates can be extremely dangerous.

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# PRODUCT: PF7770 PLIOGRIP® URETHANE STRUCTURAL ADHESIVE PART A (35 MINUTE OPEN)

## **SECTION 08: Exposure controls / personal protection**

INGREDIENTS	TWA ACG	IH TLV STEL	OSHA PEL	PEL STEL	NIOSH REL
4,4'-DIPHENYLMETHAN E DIISOCYANATE (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
2,4-DIPHENYLMETHANE DIISOCYANATE (MDI)	Not established	Not established	Not established	Not established	Not established
Eye/type		Chemical safety goggle	s and full faceshield if	a splash hazard exists.	Contact lenses
Gloves/ type		exposure. Safety boots per local re In case of insufficient ve purifying respirator with minimize exposure. How hour) at relatively low coair-purifying respirators mandatory when airborn times the appropriate eximited ventilation. Be su exceed the use limits of Eye wash facility and er employees on the safe in Ventilate adequately. E environmental contamin the current occupationa	es. ve clothes. Wear long egulations. entilation, wear suitable organic vapour cartrid wever, this should be p oncentrations (at or ne is limited. The use of a ne concentrations are of exposure limit or sprayir ure to use NIOSH appoint the respirator. mergency shower shou use and handling of th exhaust air may need to lation. Vent work area I exposure limits. Avo	ear long sleeves and trousers to prevent dermal r suitable respiratory equipment. An approved air ar cartridges and particulate prefilter can be used to fould be permitted only for short periods of time (< 1 (at or near the exposure limit). Protection provided by use of a positive pressure air supplied respirator is ons are not known or airborne solvent levels are 10 or spraying is performed in a confined space or with SH approved respirator or equipment. Do not	

## **SECTION 09: Physical and chemical properties**

## **SECTION 10: Stability and reactivity**

Stable at normal temperatures and pressures.
Contact with moisture and other materials will react with isocyanates.
Acids, alcohols, aluminum, amines, ammonia, bases, copper alloys, fluorides, iron,
isocyanates, oxidizers, phosphorus compounds, strong alkalis, water, zinc.
See hazardous combustion products section 5.
Contact with moisture, other materials that react with isocyanates, or temperatures above
177C, may cause polymerization.



## PRODUCT: PF7770 PLIOGRIP® URETHANE STRUCTURAL ADHESIVE PART A (35 MINUTE OPEN)

SECTION 11: Toxicological information			
INGREDIENTS		LC50	LD50
4,4'-DIPHENYLMETHANE DIISOCYANATE (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
2,4-DIPHENYLMETHANE DIISOCYANATE (M	DI)	No data	No data
Route of entry	In the workplace, 4,4'-	-diphenylmethane diisocyanate (MD	OI) is mainly absorbed through the
Effects of acute exposure	SKIN: Irritant. Can ca can experience allerg rash. Cured material EYE: Product liquid, swelling. May cause concentrations above membranes in the reschest discomfort, diffigure-existing, nonspec TLV with similar sympto several hours after irritation. Symptoms of diarrhea. Talc can be lung function.	is poorly absorbed by the skin. Eye use reddening, itching and swelling ic skin reaction with symptoms of re is difficult to remove. Contact with aerosols or vapours are irritating. Contemporary corneal injury. INHALAT the exposure limits can irritate (bur peiratory tract. This can cause a runculty breathing and reduced pulmonific bronchial hyperractivity can response as well as asthma attack. The exposure. Effects are usually reversal include sore throat, abdominal pabsorbed into the lungs and the dig	g. Persons previously sensitized addening, itching, swelling and MDI can cause discolouration. Can cause tearing, reddening and TION: Vapour/mists at ning sensation) the mucous any nose, sore throat, coughing, pary functioning. Persons with bond to concentrations below the ese symptoms can be delayed up ersible. INGESTION: May cause pain, nausea, vomiting and gestive tract, and adversely affect
Effects of chronic exposure	respiratory sensitization a single large dose react to a later exposichest tightness, whee immediate or delayed experience these symincreased lung sensiti Prolonged or repeate function. Possible ris reddening, swelling, roan be permanent. P	peated exposure to diphenylmethan on causing asthma. As a result of a certain individuals develop sensitive to product at levels well below the gring, cough, shortness of breath or an area of the product at the cough of the co	previous repeated overexposure zation, which will cause them to the TLV. Symptoms, including asthma attack, could be tized, an individual can air or other irritants. This evere cases, for several years. Expension in lung skin contact may cause skin sensitization. Sensitization
Sensitizing capability of material	been shown to cause fibrosis of the lungs.  Isocyanates are known to cause skin and respiratory sensitization in humans. Anima		sitization in humans. Animal tests
Carcinogenicity of material	product contains non-asbestiform Talc, which is classified as a Group 3 (not classifiable		
Reproductive effects			re sources consulted. MDI: It
MutagenicityNote	This product is an ine to unreacted chemica when using cartridges mixed material is actuit unlikely to present a	in animals. for an adequate assessment of the rt plastic when fully cured, and as s ls can occur when handling the indi from the time of dispensing until th lally curing as it is dispensed in an i in inhalation hazard. The semi-visc d, thus minimizing the possibility of a	uch, is non-hazardous. Exposure vidual components in pails or le mixed material has cured. The ncreasingly viscous form, making ous mixture does not flow like a
SECTION	ON 12: Ecological	information	
Environmental Persistence and degradability		waters, waste water or soil.	

## **SECTION 13: Disposal considerations**

Waste disposal..... Dispose of waste in accordance

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.



#### PRODUCT: PF7770 PLIOGRIP® URETHANE STRUCTURAL ADHESIVE PART A (35 MINUTE OPEN)

#### **SECTION 14: Transport information**

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

On Domestic Substances List (DSL).

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

OSHA.....

SARA Title III

Section 302 - extremely hazardous ..... None.

substances Section 311/312 - hazard categories.....

Section 313.....

EPA hazardous air pollutants (HAPS) ........ 40CFR63

California Proposition 65.....

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

Immediate health, delayed health.

4,4'-methylenediphenyl diisocyanate. Methylene Diphenyl Diisocyanate (MDI).

This product does not contain any chemical(s) known to the State of California to cause cancer or reproductive toxicity.

#### **SECTION 16: Other information**

REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com. Prepared by: .....

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

DISCLAIMER: All information appearing herein is based upon data obtained from Disclaimer:..... 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.

Preparation date: ..... MAY 18/2017



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

#### PRODUCT: PF7770 PLIOGRIP® URETHANE STRUCTURAL ADHESIVE PART B (35 MINUTE OPEN)

## **SECTION 01: Chemical product and company identification**

Manufactured for..... Pro Form Products Ltd. 604 McGeachie Drive Milton, Ontario L9T3Y5 Tel (905) 878-4990 Fax (905) 878-1189 PF7770 PLIOGRIP® URETHANE STRUCTURAL ADHESIVE PART B (35 MINUTE OPEN) Recommended use and restrictions on use... (PART B). Adhesive applications. for industrial use only-keep out of reach of children . This product should not be used for any other purpose other than the ones described in this section. Chemical family..... Aromatic isocyanate prepolymer.

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

HMIS..... H: 2\* F: 1 R: 0.

IN CANADA CALL CANUTEC 1-888-226-8832 (CAN-UTEC); IN THE UNITED STATES CALL CHEMTREC 1-800-424-9300. 24 hour emergency number:.....

#### SECTION 02: Hazards identification



Signal Word Hazard Classification	DANGER. Skin Irritant 2. Skin Sensitizer 1. Respiratory Sensitizer 1. Reproductive 2. Specific
Hazard Description	Target Organ Toxicity — Repeated Exposure — 1. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H361 This product contains
Prevention	ingredients that are suspected of damaging fertility or the unborn child. H372 Causes damage to the liver and kidneys through prolonged or repeated exposure. P201 Obtain special instructions before use. P202 Do not handle this product until all safety instructions have been read and understood. P264 Wash thoroughly after handling. P280 Wear protective gloves and eye protection. P272 Contaminated work clothing should
Response	not be allowed out of the workplace. P270 Do not eat drink or smoke while using this product. P284 In case of inadequate ventilation wear respiratory protection. P260 Do not breathe mist, vapours, or spray.  P302 + P352 - If on skin: wash with plenty of water P362 + P364 - Take off contaminated clothing and wash before reuse. P333 + P313 If skin irritation or rash occurs, get medical advice/attention. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P343 + P311 If experiencing requirement of the process of the patterns.
StorageDisposal	for breathing. P342 + P311 If experiencing respiratory symptoms; call poison center or doctor. P308 + P313 If exposed or concerned, get medical advice/attention. P321 - For specific treatment see section 4 on this SDS. P405 Store locked up. P501 Dispose all unused, waste or empty containers in accordance with local regulations.

SECTION 03: Composition/Information on Ingredients			
HAZARDOUS INGREDIENTS	CAS#	WT. %	
Talc	14807-96-6	20-30	
BENTONITE	71011-26-2	1.5-5	
PIPERAZINE	110-85-0	0.5-1	

#### PRODUCT: PF7770 PLIOGRIP® URETHANE STRUCTURAL ADHESIVE PART B (35 MINUTE OPEN)

#### **SECTION 04: First aid measures**

immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Obtain medical attention. Immediately flush skin with plenty of soap and water. Remove contaminated clothing. Skin contact..... Wash clothing before reuse. Do not peel solidified product off the skin. If irritation persists, seek medical attention. Inhalation..... If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person. If Ingestion..... spontaneous vomiting occurs have victim lean forward with head down to prevent aspiration of fluid into the lungs. Obtain medical attention immediately. Treat victims symptomatically. Skin: this compound is a known skin sensitizer. Treat Additional information..... 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 media

Dry chemical. Carbon dioxide. Water spray.

Hazardous combustion products.....

Aldehydes, carbon dioxide and carbon monoxide, halogenated hydrocarbons, hydrogen cyanide (hydrocyanic acid), isocyanates, ketones, nitrogen compounds, nitrogen oxides (nox), toxic fumes carbon dioxide and carbon monoxide, hydrogen cyanide (hydrocyanic acid), isocyanates, nitrogen oxides (nox), toxic fumes, aldehydes, ketones, halogenated hydrocarbons.

Special fire fighting procedures.....

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.

Unusual fire / explosion hazards.....

Reaction between water or foam and hot MDI can be vigorous. (from PART A).

#### **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.

Minor spills.....

Absorb isocyanates with sawdust or other absorbent. 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. Do not use neutralizing solution on a large spill. Decontaminate spill area with decontamination solution. Area can then be washed with soap and water. 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. Use a solvent such as; isopropanol, methyl ethyl ketone, or acetone, to clean up up residual

Clean up.....

### **SECTION 07: Handling and storage**

Handling procedures.....

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. Handle in accordance with good industrial hygiene and safety practices. Warning properties (irritation of the eyes, nose and throat or odour) are not adequate to prevent chronic overexposure from inhalation. 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.



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## PRODUCT: PF7770 PLIOGRIP® URETHANE STRUCTURAL ADHESIVE PART B (35 MINUTE OPEN)

#### **SECTION 07: Handling and storage**

Storage needs.....

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Store in tightly closed containers to prevent moisture contamination. Store in a cool, dry and well ventilated area. Exposure to vapours of heated isocyanates can be extremely dangerous.

### SECTION 08: Exposure controls / personal protection

INGREDIENTS	ACGI TWA	H TLV STEL	OSHA PEL	PEL STEL	NIOSH REL
Talc	2 mg/m3	Not established	2 mg/m3 TWA	3 mg/m3 - QUE	Not established
	Not Established	Not Established	Not Established	Not Established	Not Established
PIPERAZINE	Not established	Not established	Not established	Not established	Not established
Eye/type		Chemical safety goggle should not be worn whe Chemical resistant glow Wear adequate protecti exposure. Safety boots per local re In case of insufficient vepurifying respirator with minimize exposure. How hour) at relatively low cair-purifying respirators mandatory when airborn times the appropriate eximited ventilation. Be si exceed the use limits of Eye wash facility and er employees on the safe Ventilate adequately. E environmental contamir the current occupational local exhaust is inadequately.	en working with this chees.  ve clothes. Wear long egulations. entilation, wear suitable organic vapour cartrid wever, this should be poncentrations (at or ne is limited. The use of an econcentrations are exposure limit or spraying the respirator. The respirator is and handling of the respirator and handling of the exposure limits. Avo	emical.  sleeves and trousers to e respiratory equipment ges and particulate presermitted only for short ar the exposure limit). It is positive pressure air shot known or airborne shot known or airborne shot exported in a corroved respirator or equivaled be in close proximity e product.  To be cleaned by scrubber to ensure airborne corid breathing mists; if ge	i. An approved air filter can be used to periods of time (< 1 Protection provided by supplied respirator is solvent levels are 10 offined space or with pment. Do not it. Educate and train ters or filters to reduce acentrations are below neral ventilation or

#### **SECTION 09: Physical and chemical properties**

Dart D. Missaus liquid

Physical state. Colour. Odour. Odour. Odour threshold (ppm) Vapour pressure (mm Hg) Vapour density (air=1) pH Relative Density (Specific Gravity) Melting / Freezing point (deg C) Solubility Initial boiling point / boiling range (deg C) Evaporation rate Flash point (deg C), method Auto ignition temperature (deg C) Upper flammable limit (% vol) Lower flammable limit (% vol) Coefficient of water\oil distribution	Part B:. Viscous liquid. Green. No data. Not available. 3 hPa @ 25°C. (calculated). >1. No data. 1.225 g/cm3 @ 20°C - 10.2 lb/usg @ 25°C Not Available. Insoluble in water. No data. 1.0. (butyl acetate = 1). >93.4°C, >200°F. Not available. No data. No Data. No Data. Not available.
VOC	No data. Not Available.
Viscosity	NUL Available.

#### **SECTION 10: Stability and reactivity**



#### PRODUCT: PF7770 PLIOGRIP® URETHANE STRUCTURAL ADHESIVE PART B (35 **MINUTE OPEN)**

#### **SECTION 11: Toxicological information INGREDIENTS** LC50 LD50 Not available Not available Talc **BENTONITE** No Data No Data **PIPERAZINE** No data 1,900 mg/kg oral rat; 4,000 mg/kg dermal rabbit Eye contact. Skin contact. Inhalation. Route of exposure..... Can cause moderate skin or eye irritation. Excessive vapours may cause nasal and Effects of acute exposure..... respiratory tract irritation. Breathing of high vapour concentrations may cause anesthetic effects and serious health effects. Talc can be absorbed into the lungs and the digestive tract, and adversely affect lung function. Effects of chronic exposure..... As a result of previous repeated overexposure or a single large dose, certain individuals develop sensitization, which will cause them to react to a later exposure to product at levels well below the TLV. Symptoms, including chest tightness, wheezing, cough, shortness of breath or asthma attack, could be immediate or delayed. There are reports that once sensitized, an individual can experience these symptoms upon exposure to dust, cold air or other irritants. This increased lung sensitivity can persist for weeks and, in severe cases, for several years. Prolonged or repeated exposure may cause lung damage, including a decrease in lung function. Possible risk of irreversible effects. Prolonged skin contact may cause reddening, swelling, rash, blistering, and in some cases, skin sensitization. Sensitization can be permanent. Prolonged vapour contact with eyes may cause conjunctivitis. Talc has been shown to cause fibrosis of the lungs. Piperazine is suspected of being both a dermal and respiratory sensitizing agent. May Sensitizing capability of material..... cause sensitization by inhalation. May cause sensitization by skin contact. Carcinogenicity of material..... This product contains non-asbestiform Talc, which is classified as a Group 3 (not classifiable as to carcinogenicity to humans) by IARC . Piperazine:. ACGIH Evaluation: Substance not classifiable as a human carcinogen (group A4). . Reproductive effects..... Piperazine:. May cause adverse effects. The data do not allow for an adequate assessment of the mutagenic effect. This product is an inert plastic when fully cured, and as such, is non-hazardous. Exposure Mutagenicity..... Note..... 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. The mixed material is actually curing as it is dispensed in an increasingly viscous form, making

#### **SECTION 12: Ecological information**

Environmental..... Do not allow to enter waters, waste water or soil.

#### **SECTION 13: Disposal considerations**

Dispose of waste in accordance with all applicable federal, provincial/State and local Waste disposal..... 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.

it unlikely to present an inhalation hazard. The semi-viscous mixture does not flow like a liquid when dispensed, thus minimizing the possibility of accidential skin contact.

## **SECTION 14: Transport information**

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

Marine Pollutant..... 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**

On Domestic Substances List (DSL). All components are listed.

TSCA inventory status.....

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

Section 302 - extremely hazardous ..... None.

Section 311/312 - hazard categories..... Immediate health, delayed health.

Section 313..... None.



#### PRODUCT: PF7770 PLIOGRIP® URETHANE STRUCTURAL ADHESIVE PART B (35 **MINUTE OPEN)**

#### **SECTION 15: Regulatory information**

EPA hazardous air pollutants (HAPS) ...... None.

40CFR63

California Proposition 65.....

This product does not contain any chemical(s) known to the State of California to cause cancer or reproductive toxicity.

#### **SECTION 16: Other information**

REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com. Prepared by: ..... (800) 387-7981.

Telephone number:.... DISCLAIMER: All information appearing herein is based upon data obtained from Disclaimer:.....

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.

Preparation date: ..... MAY 18/2017