

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

PRODUCT: PF 211 URETHANE SEALER/ADHESIVE - GRAY

SECTION 01: IDENTIFICATION

Product identifier..... PF 211 URETHANE SEALER/ADHESIVE - GRAY

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 CHEMTRÉC 1-800-424-9300. * For medical emergencies contact your local poison control centre **.

Recommended use and restrictions on ...

Chemical family..... Hazard rating NFPA rating.....

Aromatic isocyanate prepolymer.

Health: 2 Fire: 1 Reactivity: 0.

Adhesive applications.

HMIS..... H: 2 F: 1 R: 1.

SECTION 02: HAZARD IDENTIFICATION





Signal Word...... DANGER. Acute Toxicity 4. Skin Irritation — Category 2. Eye Irritation — Category 2A. Respiratory Sensitizer 1. Skin Sensitizer 1. Reproductive Toxicity — Category 1. H315 Causes skin irritation. H313 May be harmful in contact with skin. H317 May cause an Hazard Classification..... Hazard Description..... allergic skin reaction. H320 Causes eye irritation. H302 Harmful if swallowed. H332 Harmful if inhaled. H335 May cause respiratory irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H361 Suspected of damaging fertility or the unborn child. P202 Do not handle this product until all safety instructions have been read and Prevention..... understood. P233 Keep container tightly closed. P251 Do not pierce or burn container, even after use. P261 Avoid breathing dust. 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. P273 Avoid release to the environment. P280 Wear protective gloves and eye protection. P284 In case of inadequate ventilation wear respiratory protection.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS				
CHEMICAL NAME AND SYNONYMS	CAS#	WT. %		
Xylene DIPHENYLMETHANE DIISOCYANATE (MDI)	1330-20-7 26447-40-5	4-9 0.1-1.0		

SECTION 04: FIRST-AID MEASURES

In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at Eye contact..... least 15 minutes. Check for and remove any contact lenses, if safe and easy to do so. Consult a physician if irritation continues. Immediately flush skin with plenty of soap and water. Remove contaminated clothing. Skin contact..... Wash clothing before reuse. 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.



SECTION 04: FIRST-AID MEASURES

Ingestion.....

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 medical attention.

Additional information.....

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 the hazardous product, such as the nature of any hazardous combustion products Special protective equipment and

Unusual fire / explosion hazards.....

precautions for fire-fighters

Carbon dioxide. Foam. Dry chemical. In cases of larger fires, water spray should be used.

Oxides of carbon (CO, CO2). Oxides of nitrogen. Hydrogen cyanide. Isocyanates. Dense black smoke. 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.

During a fire, irritating and toxic gases and aerosols may be generated by thermal decomposition and combustion. 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 area. Open windows and doors to allow air circulation. Dike area to prevent spreading. The use of absorbent socks or spill pillows may be required. 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. Stop leak if safe to do so. Prevent runoff into drains, sewers, and other

Major spills.....

Minor spills.....

Clean up.....

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. If temporary control of isocyanate vapour is required, a blanket of protein foam may be placed over spill. Large

quantities may be pumped into closed, but not sealed, containers for disposal. 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. Allow to stand (covered loosely) for 48 to 72

hours, to allow any gases to escape.

Decontaminate spill area with decontamination solution. Area can then be washed with soap and water.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling.....

Avoid skin and eye contact. Do not breathe vapours, mist or dust. Use adequate ventilation. Keep container closed when not in use. Do not reseal if contamination is suspected. 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. Store in a cool, dry and well ventilated area. Keep container closed when not in use.

Conditions for safe storage, including any incompatibilities



SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	CGIH TLV STEL	OSHA PEL	A PEL STEL	NIOSH REL	
Xylene	50 ppm	150 ppm	100 ppm TWA	Not established	Not established	
DIPHENYLMETHANE DIISOCYANATE (MDI)	Not established	(TWA); 150ppm (STEL) Not established	Not established	Not established	Not established	
,	No data					
Personal Protective Equipment Eye/type		Chemical safety goggles. Chemical safety goggles and full faceshield if a splash hazard exists. 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. Respi pressure air supplied resp or airborne solvent levels performed in a confined sp or equipment. Do not exc	ratory equipment requirator is mandatory whare 10 times the appropace or with limited veed the use limits of the	ired during spraying. The nen airborne concentration priate exposure limit or ntilation. Use NIOSH ap ne respirator.	e use of a positive ons are not known spraying is	
Gloves/ type Clothing/type			emical resistant gloves: butyl rubber, nitrile rubber, neoprene, PVC. ear adequate protective clothes. Wear long sleeves and trousers to prevent dermal			
Footwear/typeOther/type		Safety boots per local regulations.				
Appropriate engineering controls		Ventilate adequately. Exhaust 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.				
Monitoring		Exposure levels must be r TLV is not exceeded.	monitored by accepted	I monitoring techniques	to ensure that the	
Medical surveillance		Medical supervision of all recommended. These showith pulmonary function to conditions, chronic bronch or sensitization should be diagnosed as sensitized to	ould include preemplo est (FEC, FVC as a min litis, other chronic resp excluded from working	yment and periodic med nimum). Persons with a piratory diseases or recu g with isocyanates. Ond	lical examinations asthmatic-type arring skin eczema be a person is	
Exposure limits		-	•	·		

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state	Paste. Thixotropic. Gray. Light, typical. Not available. Not available. No data. Not applicable. (undiluted). 1.32 g/ml (20C) (Method: immersed body). Not applicable. Insoluble in water. Completely soluble in organic solvents. Not applicable. Not available. >200. >250. No data. No data. No data. Not available. 60000-120000 cPs (23C). 65.5 g/L - 0.55 lb/USG.
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SECTION 10: STABILITY AND REACTIVITY

Hazardous decomposition products....... See hazardous combustion products section 5.



SECTION 10: STABILITY AND REACTIVITY

Possibility of hazardous reactions............ Contact with moisture, other materials that react with isocyanates, or temperatures above 177C, may cause polymerization.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS LC50 LD50

Xylene 6350 ppm 4 hours rat >3523 mg/kg rat oral

DIPHENYLMETHANE DIISOCYANATE (MDI)

Route of exposure...... Eye contact. Skin contact. Inhalation.

172-187 mg/m3 - 4h Rat

Not available

diarrhea

develop sensitization which will cause them to react to a later exposure to product at levels well below the exposure limit. 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. Prolonged skin contact may cause reddening, swelling, rash, scaling, blistering, and in some cases, sensitization. Sensitization can be

permanent. Prolonged vapour contact may cause conjunctivitis.

Sensitizing capability of material................ Isocyanates are known to cause skin and respiratory sensitization in humans. Animal tests

Toxicological Data

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

SECTION 15: REGULATORY INFORMATION

WHMIS 1988 classification..... D2A. D2B.

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

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

SARA Title III

Section 302 - extremely hazardous

substances

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

Immediate health, delayed health. Xylene. Polymeric diphenylmethane diisocyanate. Section 313.....

EPA hazardous air pollutants (HAPS) None.

40CFR63

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

California Proposition 65..... This product does not contain any chemical(s) listed on California's Proposition 65.

SECTION 16: OTHER INFORMATION

REGULATORY AFFAIRS. Prepared by:

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

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.

2021-11-03. Date of the latest revision of the safety ... 2016-08-25

data sheet