

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

20110 PINCHWELD & GLASS BOND PRIMER PRODUCT:

SECTION 01: IDENTIFICATION

Initial supplier identifier..... Pro Form Products Ltd. 604 McGeachie Drive

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20110 PINCHWELD & GLASS BOND PRIMER

Product identifier..... Recommended use and restrictions on ..

Chemical family.....

NFPA rating....

HMIS..... 24 hour emergency number:....

Primer.

Mixture. Health: 2 Fire: 4 Reactivity: 0.

H: 2 F:4 R: 0.

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 **.

SECTION 02: HAZARD IDENTIFICATION



Signal Word Hazard Classification	Flammable Liquid 2. Eye Irritation — Category 2A. Respiratory Sensitizer — Category 1.
Hazard Description	Specific Target Organ Toxicity — Single Exposure — Category 3. (narcotic effects). H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H336 May cause drowsiness or dizziness.
Prevention	P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. P241 Use explosion proof equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing mists, vapours and sprays. P264 Wash thoroughly after handling. P271 Use only outdoors or in a well ventilated area. P280 Wear protective gloves and eye protection. P284 In case of inadequate ventilation wear respiratory protection.
Response	P370 + P378 In case of fire - use dry chemical powder, CO2 or foam to extinguish. P303 + P361 + P353 If on skin or in hair: take off all contaminated clothing immediately. Rinse thoroughly with water and use safety shower . 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. P337 + P313 - If eye irritation persists get medical attention. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P342 + P311 If experiencing respiratory symptoms; call poison center or doctor. P312 Call a POISON CENTER/doctor if you feel unwell.
Storage	P233 Keep container tightly closed. P403 + P235 Store in well ventilated area. Keep cool. P405 Store locked up.
Disposal Note	P501 Dispose all unused, waste or empty containers in accordance with local regulations. This product mixture has been classified based on its ingredients.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS				
CHEMICAL NAME AND SYNONYMS	CAS#	WT. %		
Methyl Ethyl Ketone	78-93-3	62-66		
Benzene, 1,1'-methylenebis[4-isocyanato- (MDI)	101-68-8	0.1-1		
Isophorone Diisocyanate	4098-71-9	0.1-1		

<<The actual concentration(s) withheld as a trade secret>> .



SECTION 04: FIRST-AID MEASURES

Check for and remove any contact lenses, if safe and easy to do so. In case of contact, Eye contact..... immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Consult a physician if irritation continues.

Immediately flush skin with plenty of soap and water. Remove contaminated clothing. Skin contact..... Wash clothing before reuse. Obtain medical attention. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is Inhalation..... difficult, give oxygen, obtain medical attention. Get medical attention. Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs have victim Ingestion..... lean forward with head down to prevent aspiration of fluid into the lungs. Harmful if swallowed, in contact with skin or if inhaled. Can cause skin sensitization. Most important symptoms and effects, Causes eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Vapors have a narcotic effect and may cause headache, fatigue, dizziness whether acute or delayed 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

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. Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosive rupture. During a fire, isocyanate vapours and other irritating, highly toxic gases may be generated by thermal decomposition or combustion.

During a fire, irritating and toxic gases and aerosols may be generated by thermal decomposition and combustion.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Equipment should be grounded.

Methods and materials for containment and cleaning up Leak/spill......

hazardous product, such as the nature of

Special protective equipment and

Unusual fire / explosion hazards.....

any hazardous combustion products

precautions for fire-fighters

Isolate area and keep unauthorized people away. Do not walk through spilled material. Follow all applicable fire and explosion precautions during the spill response procedure. Avoid breathing vapours and skin contact. Remove sources of ignition if combustible or flammable vapours may be present and ventilate area. Open windows and doors to allow air circulation. Wear recommended protective equipment. Dike area to prevent spreading. Prevent runoff into drains, sewers, and other waterways. The use of absorbent socks or spill pillows may be required. Absorb with earth, sand, or another dry inert material. Pick up waste material and place in an appropriate container for disposal. Use explosion-proof or hand pumps and non-sparking tools and equipment. 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.

SECTION 07: HANDLING AND STORAGE



SECTION 07: HANDLING AND STORAGE

Precautions for safe handling.....

heated, sprayed, used in confined space, or if exposure limit is exceeded. Electrostatic charges may be generated during pumping. Do NOT use compressed air for handling. Ensure that equipment is properly bonded and grounded during filling and transferring as product may become electrostatically charged. Ground handling equipment. Keep container closed when not in use. Do not reseal if contamination is suspected. Wash thoroughly after handling. Employee education and training are important. Handle in accordance with good industrial hygiene and safety practices.

Conditions for safe storage, including any incompatibilities

accordance with good industrial hygiene and safety practices. Keep away from heat, sparks, and open flames. Store in a cool, dry and well ventilated area. Store away from sunlight. Keep container closed when not in use. Do not reseal if contamination is suspected.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	CGIH TLV STEL	PEL OSHA	A PEL STEL	NIOSH REL	
Methyl Ethyl Ketone	200 ppm	300 ppm	200 ppm	Not established	200 ppm TWA	
Benzene, 1,1'-methylenebis[4-isocy anato- (MDI)	0.005 ppm	Not established	0.005 ppm TWA	0.005 ppm AB OEL TWA	0.05 mg/m3	
Isophorone Diisocyanate	0.005 ppm	Not established	Not established	Not established	0.005 ppm skin	
Appropriate engineering		Ventilate adequately. Extensironmental contaminathe current occupational clocal exhaust is inadequadevices. Explosion-proof	exposure limits. Avoid te, persons exposed to	breathing mists; if gene	eral ventilation or	
Personal Protective Equ Eye/type		Chemical safety goggles. exists.	Chemical safety gogg	les and full faceshield it	a splash hazard	
Gloves/ type		Wear skin protection equipment. The selection of skin protection equipment depends on the nature of the work to be performed. The following gloves are recommended: Short term:. Nitrile rubber. Thickness: 0.3 mm. Permeation time: >480 min. Continued exposure:. Butyl rubber. Thickness: 0.4 mm. Permeation time: >480 min.				
Footwear/type Clothing/type		Safety boots per local reg Wear adequate protective exposure.	julations. e clothes. Wear long sl	eeves and trousers to p	prevent dermal	
Respiratory/type		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. 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. Respiratory equipment required during spraying. Be sure to use NIOSH approved respirator or equipment. Do not exceed the use limits of the respirator.				
Other/type						
Monitoring		Exposure levels must be TLV is not exceeded.				
Medical surveillance	Medical supervision of all recommended. These sh with pulmonary function to conditions, chronic broncl or sensitization should be	cal supervision of all employees who handle or come in contact with isocyanates is nmended. These should include preemployment and periodic medical examinations bulmonary function test (FEC, FVC as a minimum). Persons with asthmatic-type tions, chronic bronchitis, other chronic respiratory diseases or recurring skin eczema insitization should be excluded from working with isocyanates. Once a person is osed as sensitized to an isocyanate, no further exposure can be permitted.				

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state	Liquid.
Colour	Black.
Odour	Solvent odour.
Odour threshold (ppm)	Not available.
pH	Not available.
Melting / Freezing point (deg C)	Not available.
Initial boiling point / boiling range (deg C).	80°C (176°F).
Flash point (deg C), method	-10°C (14 °F).
Evaporation rate	Not avàilablé.
Flammability (solids and gases)	Not applicable.
Upper explosive limit (% vol)	11.5. ' '
Lower explosive limit (% vol)	0.8.
Vapour pressure (mm`Hg)	150 bar.



SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Vapour density (air=1)..... Relative Density (Specific Gravity)..... 0.95. Pounds / USG..... 7.93. Solubility..... Not available. Partition coefficient — n-octanol/water..... Not available. 400 °C (752 °F). Auto ignition temperature (deg C)..... Decomposition temperature..... Not available. Viscosity..... Not available. % Volatile by volume..... Not available.

lbs/USG.

SECTION 10: STABILITY AND REACTIVITY

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS		LC50	LD50	
Methyl Ethyl Ketone		>5,000 ppm (6 hours, rat) 11000 ppm (45 minutes, mouse)	3,400 mg/kg (rat, oral) >8000 mg/kg (rabbit, dermal) 670 mg/kg (mouse, oral)	
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	
Isophorone Diisocyanate		123 mg/m3 4 hours rat	>1,000 mg/kg rat oral 1,060 mg/kg rat dermal	
Acute Toxicity Estimate (ATE) Route of exposure Effects of acute exposure Effects of chronic exposure	corneal damage. May cay vapour/mists at concentrative mucous membranes coughing, chest discomf Persons with pre-existing concentrations below the well above the TLV or Pichemical or hypersensi These symptoms can be reversible. Can result in cause chemical pneumo vomiting and diarrhea. Mausea, vomiting and we Prolonged or repeated sensitization. As a result individuals develop sensiproduct at levels well be inhalation may be harmf shortness of breath or as	ct. Inhalation. an cause tearing, reddening and swause skin irritation. Causes respiratorations above the exposure limits can in the respiratory tract. This can cort, difficult breathing and reduced g, nonspecific bronchial hyperreactive TLV with similar symptoms, as we be the two promotions, as we the two promotions, as we the two promotions are the two promotions are the two promotions. Symptoms can include sore the two processes are	ory tract irritation. Isocyanate an irritate (burning sensation) ause a runny nose, sore throat, pulmonary functioning. vity can respond to ell as asthma attack. Exposure Il spasm and pulmonary edema. toms has also been reported. exposure. Effects are usually ration of liquid into lungs can hroat, abdominal pain, nausea, effects such as headache, acking of skin. Prolonged skin ring, and in some cases, e or a single large dose, certain eact to a later exposure to a can be permanent. Prolonged thess, wheezing, cough, or delayed. Prolonged or	
Sensitizing capability of material	concentrating and inhaling lsocyanates are known to	ct may cause conjunctivitis. Intention ng this product may be harmful or fa o cause skin and respiratory sensit tratory sensitization can result from	atal . ization in humans. Animal tests	
Reproductive effects	In one study, Methyl Eth	yl Ketone has been found to cause		
Carcinogenicity of material	No component of this pr	roduct present at levels greater than or equal to 0.1% is identified		

as probable, possible or confirmed human carcinogen by IARC or ACGIH. IARC Group 3:. (not classifiable as a human carcinogen). Benzene, 1,1'-methylenebis[4-isocyanato- (MDI).

SECTION 11: TOXICOLOGICAL INFORMATION

Specific Target Organ Toxicity May cause drowsiness or dizziness.

SECTION 12: ECOLOGICAL INFORMATION

Environmental..... No product data. Do not allow to enter waters, waste water or soil.

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. Empty containers must be handled with care due to product residue.

SECTION 14: TRANSPORT INFORMATION

TDG Classification..... UN1139 - COATING SOLUTION - Class 3 - Packing Group II - This product meets the limited quantity exemption when packaged in containers less than 5 Litres. UN1139 - COÁTING SOLUTION - Class 3 - Packing Group II . Ltd Qty (5 Liters/1.3 DOT Classification (Road)..... Gallons) UN1139 - COATING SOLUTION - Class 3 - Packing Group II . Limited Quantity. Do not IATA Classification (Air)..... ship by air without checking appropriate IATA regulations.
UN1139 - COATING SOLUTION - Class 3 - Packing Group II - EmS: F-E S-E. Check IMDG Classification (Marine)..... IMDG regulations for limited quantity exemptions. Marine Pollutant.....

In accordance with Part 2.2.1 of the Transportation of Dangerous Goods Regulations (July Proof of Classification..... 2, 2014) - we certify that classification of this product is correct. .

SECTION 15: REGULATORY INFORMATION

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

TSCA inventory status..... All components are either listed or exempt from the TSCA. .

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

Section 302 - extremely hazardous Isophorone Diisocyanate.

substances

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

No.

Isophorone Diisocyanate. Methylene Diphenyl Diisocyanate (MDI). Section 313......

EPA hazardous air pollutants (HAPS) Methylene Diphenyl Diisocyanate (MDI)

This product does not contain any chemical(s) known to the State of California to cause California Proposition 65..... cancer or reproductive toxicity. For more information, go to www.P65Warnings.ca.gov.

SECTION 16: OTHER INFORMATION

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

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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.

Date of the latest revision of the safety ... 2019-10-16

data sheet