

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

Milton, Ontario L9T3Y5 Tel (905) 878-4990 Fax (905) 878-1189

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

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 AC	CGIH TLV STEL	OSH/ PEL	A PEL STEL	NIOSH REL
Methyl Ethyl Ketone	200 ppm	300 ppm	200 ppm	Not established	200 ppm TWA
	CA ON: 200ppm	(TWA), 300ppm (STEL)			
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. Ex environmental contamina the current occupational local exhaust is inadequatevices. Explosion-proof	ition. Vent work area to exposure limits. Avoid ate, persons exposed to	o ensure airborne conce breathing mists; if gene	entrations are below eral ventilation or
Personal Protective Equ					
Eye/type		Chemical safety goggles exists.	Chemical safety gogg	ies and full faceshield if	a spiasn nazard
Gloves/ type		Wear skin protection equ the nature of the work to term:. Nitrile rubber. Thic Butyl rubber. Thickness:	be performed. The foll kness: 0.3 mm. Perme	owing gloves are reconstantion time: >480 min. C	nmended :. Short
Footwear/type Clothing/type		Safety boots per local req Wear adequate protective exposure.	gulations.		prevent dermal
Respiratory/type		In case of insufficient ver purifying respirator with c minimize exposure. The when airborne concentra appropriate exposure lim ventilation. Respiratory e respirator or equipment.	organic vapour cartridge use of a positive pressi tions are not known or it or spraying is perforn quipment required duri	es and particulate prefili ure air supplied respirat airborne solvent levels ned in a confined space ng spraying. Use NIOS	ter can be used to or is mandatory are 10 times the or with limited
Other/type		Eye wash facility and em wash their hands and fac	ergency shower should	be in close proximity.	Employees should adducts.
Monitoring		Exposure levels must be TLV is not exceeded.	monitored by accepted	monitoring techniques	to ensure that the
Medical surveillance			dical examinations asthmatic-type urring skin eczema ce a person is		

# **SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Physical state Colour Odour Odour threshold (ppm) pH Melting / Freezing point (deg C). Initial boiling point / boiling range (deg C). Flash point (deg C), method Evaporation rate. Flammability (solids and gases). Upper explosive limit (% vol)	Liquid. Black. Solvent odour. Not available. Not available. Not available. 80°C (176°F)10°C (14 °F). Not available. Not applicable.
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#### **SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Lower explosive limit (% vol)..... Vapour pressure (mm Hg)..... 150 bar. Vapour density (air=1).....Relative Density (Specific Gravity)..... 2.5. 0.95. Pounds / USG..... 7.93. Not available. Solubility..... Partition coefficient — n-octanol/water..... Auto ignition temperature (deg C)..... Not available. 400 °C (752 °F). Decomposition temperature..... Not available. Viscosity..... Not available. % Volatile by volume..... Not available. VOC (less water)..... (Directive 2010/75/EC). 4.91 lbs/USG; 588.3 g/L . (volatile carbon). 410.98 g/L; 3.43 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	Eye contact. Skin contact. Inhalation.			
Sensitizing capability of material	contact may cause reddening, swelling, rash, scaling, blistering, and in some cases, sensitization. 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 exposure limit. Sensitization can be permanent. Prolonged inhalation may be harmful Symptoms including chest tightness, wheezing, cough, shortness of breath or asthma attack, could be immediate or delayed. Prolonged or repeated exposure may cause lung damage, including a decrease in lung function. Prolonged vapour contact may cause conjunctivitis. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.  Isocyanates are known to cause skin and respiratory sensitization in humans. Animal tests have indicated that respiratory sensitization can result from skin contact with diisocyanates.		ring, and in some cases, e or a single large dose, certain eact to a later exposure to a can be permanent. Prolonged tness, wheezing, cough, or delayed. Prolonged or crease in lung function. In the suspensive by deliberately eatal. Ization in humans. Animal tests skin contact with diisocyanates.	

# **SECTION 11: TOXICOLOGICAL INFORMATION**

Carcinogenicity of material.....

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. IARC Group 3:. (not classifiable as a human carcinogen). Benzene, 1,1'-methylenebis[4-isocyanato- (MDI). May cause drowsiness or dizziness.

Specific Target Organ Toxicity .....

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 - COATING SOLUTION - Class 3 - Packing Group II . Ltd Qty (5 Liters/1.3 DOT Classification (Road)..... Gallons). IATA Classification (Air)..... UN1139 - COATING SOLUTION - Class 3 - Packing Group II . Limited Quantity. Do not 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..... No.

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

SARA Title III

Isophorone Diisocyanate. Section 302 - extremely hazardous .......

substances

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

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

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

40CFR63

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

# **SECTION 16: OTHER INFORMATION**

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

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.

2022-11-30.

Review Date:..... Date of the latest revision of the safety ...

California Proposition 65.....

data sheet

2019-10-16

