



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

**PRODUCT: PF 230 PINCHWELD AND GLASS BOND PRIMER 30ML**

### SECTION 01: IDENTIFICATION

Initial supplier identifier..... Pro Form Products Ltd.  
604 McGeachie Drive  
Milton, Ontario L9T3Y5  
Tel (905) 878-4990 Fax (905) 878-1189

Product identifier..... PF 230 PINCHWELD AND GLASS BOND PRIMER 30ML

Recommended use and restrictions on .. Adhesive applications. No restrictions on use known.  
use

Chemical family..... Mixture.

NFPA rating..... Health: 2 Fire: 4 Reactivity: 0.

HMIS..... H: 2 F:4 R: 0.

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 \*\*.

### SECTION 02: HAZARD IDENTIFICATION



Signal Word..... DANGER.

Hazard Classification..... Flammable Liquid 2. Skin Corrosion/Irritation — Category 3. Serious Eye Damage/Eye Irritation — Category 2A. Sensitization - Respiratory — Category 1. Sensitization - Skin — Category 1. Acute Toxicity (Inhalation) — Category 3. (Vapour). Specific Target Organ Toxicity — Single Exposure — Category 3. (Narcotic Effects). Specific Target Organ Toxicity — Repeated Exposure — Category 2.

Hazard Description..... H225 Highly flammable liquid and vapour. H316 Causes mild skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H331 Toxic 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. H373 May cause damage to organs through prolonged or repeated exposure.

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. 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. P303 + P361 + P353 If on skin or in hair: take off all contaminated clothing immediately. Rinse thoroughly with water and use safety shower . 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. P311 Call a POISON CENTRE or doctor. 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. P370 + P378 In case of fire - use dry chemical powder, CO2 or foam to extinguish.

Storage..... P403+P433+P435 Store in a well ventilated area. Keep container tightly closed. Keep cool. P405 Store locked up.

Disposal..... P501 Dispose all unused, waste or empty containers in accordance with local regulations.

Other hazards..... None known.

Note ..... This product mixture has been classified based on its ingredients.

**PRODUCT: PF 230 PINCHWELD AND GLASS BOND PRIMER 30ML****SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Ethyl Acetate	141-78-6	15-40
Methyl Ethyl Ketone	78-93-3	15-40
Hexane, 1,6-diisocyanato-, homopolymer	28182-81-2	10-40
<<The actual concentration(s) withheld as a trade secret>>		

**SECTION 04: FIRST-AID MEASURES**

Eye contact.....	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. Get medical attention immediately.
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.....	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention.
Ingestion.....	Immediately call a physician. Do not induce vomiting. 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.
Most important symptoms and effects, ..... whether acute or delayed	No data available.
Indication of immediate medical attention and special treatment needed, if necessary	No known specific antidote. Treat symptomatically and supportively. 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 extinguishing media.....	Carbon dioxide. Foam. Dry chemical. Water spray. NOTE: Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.
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	Irritating and toxic gases will be produced. Vapors may form explosive mixture in air. Vapors are heavier than air. Vapours can accumulate in low areas. Vapors may travel considerable distance to a source of ignition and flash back. Some liquids can be lighter than water. Closed containers may explode when exposed to extreme heat.
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. Evacuate area. Stop spill/release if it can be done safely. Remove undamaged containers is safe to do so. Cool containers with water spray. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Dispose of all runoff water as hazardous waste in accordance with all Local, Provincial and Federal Regulations.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	No action shall be taken involving any personal risk or without suitable training. 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. A vapor-suppressing foam may be used to reduce vapors. Use non-sparking tools and equipment to pick up the spilled material. Equipment should be grounded.
Environmental precautions.....	Do not allow product to leak into drains or waterways. If spill does contaminate waterways then inform authorities.
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.

**SECTION 07: HANDLING AND STORAGE**

Precautions for safe handling.....	Keep away from heat, sparks, and open flame. Do not smoke. Ensure that equipment is properly bonded and grounded during filling and transferring as product may become electrostatically charged. Flammable vapours may accumulate inside the container. Use explosion proof equipment. Wear appropriate protective equipment. Obtain special instructions before use. Do not handle until special instructions have been read and understood. Use only in well ventilated area or outside. Avoid breathing vapours or mist.
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**PRODUCT: PF 230 PINCHWELD AND GLASS BOND PRIMER 30ML****SECTION 07: HANDLING AND STORAGE**

Precautions for safe handling..... Avoid skin and eye contact. Use non sparking tools. Wash contaminated clothing prior to reuse. Contaminated clothing should not be allowed outside the workplace. Wash thoroughly after handling. Do not eat, drink or smoke while using this product. Handle in accordance with good industrial hygiene and safety practices.

Conditions for safe storage, including any incompatibilities Keep away from heat, sparks, and open flames. Precautions should generally be taken against electrostatic charges according to the equipment used and the way the product is handled and packaged. Avoid sources of ignition. Ground and bond container and receiving equipment. Store in a cool, dry and well ventilated area. Keep container closed when not in use. Store locked up. Empty containers retain hazardous product residues, both liquid and vapor. Store away from heat, direct sunlight and strong oxidizers.

**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Ethyl Acetate	400 ppm CA ON: 400 ppm (TWA)	Not established	400 ppm	Not established	400 ppm
Methyl Ethyl Ketone	200 ppm CA ON: 200ppm (TWA), 300ppm (STEL)	300 ppm	200 ppm	Not established	200 ppm TWA
Hexane, 1,6-diisocyanato-, homopolymer	Not available	Not available	Not available	Not available	Not available
Supplier OEL: 0.5mg/m3 (TWA)					
Appropriate engineering controls.....	Local exhaust should be used to maintain levels below the exposure limits.				
Personal Protective Equipment					
Eye/type.....	Chemical safety goggles. Consult your personal protective equipment supplier for additional recommendations.				
Gloves/ type.....	Chemical resistant gloves. 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.				
Clothing/type.....	Wear chemical resistant clothing. Consult your personal protective equipment supplier for additional recommendations.				
Respiratory/type.....	An air-purifying particulate/organic vapour cartridge respirator is required anytime inhalation of vapour above the exposure limit is possible. .				
Other/type.....	Eye wash facility and emergency shower should be in close proximity. Employees should wash their hands and face before eating, drinking, or using tobacco products. Avoid release to the environment.				

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Physical state..... Liquid.

Colour..... Not available.

Odour..... Characteristic of solvent.

Odour threshold (ppm)..... Not available.

pH..... Not available.

Melting / Freezing point (deg C)..... -84.0 C (-119.2 F).

Initial boiling point / boiling range (deg C). 77.0 C (170.6 F).

Flash point (deg C), method..... Not available.

Evaporation rate..... Not available.

Flammability (solids and gases)..... Not applicable.

Upper explosive limit (% vol)..... Not available.

Lower explosive limit (% vol)..... Not available.

Vapour pressure (mm Hg)..... 75.75 hPa.

Vapour density (air=1)..... Not available.

Relative Density (Specific Gravity)..... Not available.

Solubility..... Insoluble in water.

Partition coefficient — n-octanol/water..... Not available.

Auto ignition temperature (deg C)..... Not available.

Decomposition temperature..... Not available.

Viscosity..... Not available.

% Volatile by volume..... Not available.

VOC LBS/GAL less water..... Not available.

VOC..... 71.5%. VOC.

Density VOC..... 672.10 g/L.

% Weight Solids..... 28.50.

**PRODUCT: PF 230 PINCHWELD AND GLASS BOND PRIMER 30ML****SECTION 10: STABILITY AND REACTIVITY**

Reactivity .....	No data.
Chemical stability.....	Stable at normal temperatures and pressures.
Possibility of hazardous reactions.....	Hazardous polymerization will not occur.
Conditions to avoid, including static .....	Avoid heat, spark, open flames. Avoid contact with hot surfaces. Eliminate sources of discharge, shock or vibration
Incompatible materials.....	Strong bases. Acids. Oxidizing agents.
Hazardous decomposition products.....	Oxides of carbon (CO,CO2).

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
Ethyl Acetate	16,000 ppm 6 hours rat	5,600 mg/kg (rat oral )
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)
Hexane, 1,6-diisocyanato-, homopolymer	4.63 mg/L rat 4 hours	>5,000 mg/kg oral rat >5,000 mg/kg dermal rabbit
Route of exposure.....	Eye contact. Skin contact. Inhalation. Ingestion.	
Acute Toxicity Estimate (ATE).....	ATEmix: Oral >5000 mg/kg; Dermal >5000 mg/kg; Inhalation 4.6875 mg/L.	
Effects of acute exposure.....	Toxic if inhaled.	
Effects of chronic exposure.....	Not available.	
Skin corrosion/irritation.....	Causes mild skin irritation.	
Serious eye damage/eye irritation.....	Causes serious eye irritation.	
Respiratory Sensitization.....	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Skin Sensitization.....	May cause an allergic skin reaction.	
Carcinogenicity.....	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.	
Mutagenicity.....	Not classified.	
STOT-SE.....	May cause drowsiness or dizziness.	
STOT-RE.....	Causes damage to organs through repeated or prolonged exposure.	
Aspiration Hazard.....	Not classified.	

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity.....	No known ecotoxicological effects.
Persistence and degradability.....	MEK (CAS # 78-93-3). Readily biodegradable.
Bioaccumulative potential.....	No additional information.
Mobility in soil.....	No additional information.
PBT and vPvB assessment.....	Does not meet the criteria for classification.

**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.
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**SECTION 14: TRANSPORT INFORMATION**

TDG Classification.....	UN1866 - RESIN SOLUTION, flammable - Class 3 - Packing Group II - Limited quantity 5L.
DOT Classification (Road).....	UN1866 - RESIN SOLUTION, flammable - Class 3 - Packing Group II - Limited quantity 5 L (1.3 gal).
IATA Classification (Air).....	UN1866 - RESIN SOLUTION, flammable - Class 3 - Packing Group II. Limited Quantity. Do not ship by air without checking appropriate IATA regulations.
IMDG Classification (Marine).....	UN1866 - RESIN SOLUTION, flammable - Class 3 - Packing Group II - EmS: F-E, S-D. Check IMDG regulations for limited quantity exemptions.
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).....	Some components are subject to reporting under NPRI. Please check your responsibility. (CAS # 141-78-6 (CAT 5)). (CAS # 78-93-3 (Cat 1A & 5)).
Environmental Emergency Regulations....	None listed in this product.

PRODUCT: PF 230 PINCHWELD AND GLASS BOND PRIMER 30ML

SECTION 15: REGULATORY INFORMATION

Categorization of the DSL..... Some components may have met the criteria under subsection 73(1) of CEPA during categorization of the DSL. Please check to see if this affects your company. (CAS # 78-93-3).

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

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

substances

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

Section 313..... Methyl Ethyl Ketone.

EPA hazardous air pollutants (HAPS) ..... Methyl Ethyl Ketone.

40CFR63

California Proposition 65..... 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](http://www.P65Warnings.ca.gov).

SECTION 16: OTHER INFORMATION

Prepared by: ..... REGULATORY AFFAIRS.

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.

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data sheet