



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

PRODUCT: PF 946C MOLDING ADHESION PROMOTER

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

Product name..... PF 946C MOLDING ADHESION PROMOTER

Recommended use and restrictions on use Adhesion promoter.

Chemical family..... Mixture.

NFPA rating..... Health: 2 Fire: 3 Reactivity: 0.

HMIS..... H: 2 F: 3 R: 0.

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

SECTION 02: Hazards identification



Signal Word..... DANGER.

Hazard Classification..... Flammable Liquid 2. Eye Irritant 2. Specific Target Organ Toxicity — Single Exposure — Category 3. Reproductive Toxicity — Category 2. Specific Target Organ Toxicity — Repeated Exposure — Category 2.

Hazard Description..... H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H361 This product contains ingredients that are suspected of damaging fertility or the unborn child. H373 May cause damage to the liver and kidneys through prolonged or repeated contact.

Prevention..... P201 Obtain special instructions before use. P202 Do not handle this product until all safety instructions have been read and understood. 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. P280 Wear protective gloves and eye protection. P264 Wash thoroughly after handling. P271 Use only outdoors or in a well ventilated area. P260 Do not breathe the mist, vapours, or spray.

Response P303 + P361 + P353 If on skin or in hair: take off all contaminated clothing immediately. Rinse thoroughly with water and use safety shower . P370 + P378 In case of fire - use dry chemical powder, CO2 or foam to extinguish. 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. P312 Call a POISON CENTER/doctor if you feel unwell. P308 + P313 If exposed or concerned, get medical advice/attention. P314 - Get medical advice/attention if you feel unwell.

Storage..... P403 + P235 Store in well ventilated area. Keep cool. P405 Store locked up. P233 Keep container tightly closed.

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

SECTION 03: Composition/Information on Ingredients

HAZARDOUS INGREDIENTS	CAS #	WT. %
Acetone	67-64-1	60-100
Toluene	108-88-3	1-5
Acrylic polymer	PROPRIETARY	1-5
Isopropyl Alcohol	67-63-0	0.1-1.0

PRODUCT: PF 946C MOLDING ADHESION PROMOTER**SECTION 04: First aid measures**

Eye contact.....	In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Obtain medical attention.
Skin contact.....	Remove all contaminated clothing and immediately wash the exposed areas with copious amounts of water for a minimum of 30 minutes or up to 60 minutes for critical body areas. 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.....	If ingestion is suspected, contact physician or poison control center immediately. If spontaneous vomiting occurs have victim lean forward with head down to prevent aspiration of fluid into the lungs. Never give anything by mouth to an unconscious person. Do not induce vomiting.
Additional information.....	Treat victims symptomatically. 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.....	"Alcohol" foam, CO ₂ , dry chemical. Water fog.
Hazardous combustion products.....	Oxides of carbon (CO, CO ₂). Toxic vapours may be evolved upon exposure to heat or open flame.
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. Solvent vapours may be heavier than air and may build up and travel along the ground to an ignition source, which may result in a flash back to the source of the vapours. Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosive rupture.
Unusual fire / explosion hazards.....	Vapours may be heavier than air. May travel long distances along the ground before igniting and flashing back to vapour source.

SECTION 06: Accidental release measures

Leak/spill.....	Ventilate. Eliminate all sources of ignition. Contain the spill. Avoid all personal contact. Evacuate all non-essential personnel. Prevent runoff into drains, sewers, and other waterways. Absorb with earth, sand, or another dry inert material. Shovel into suitable unsealed containers, transport to well-ventilated area (outside) and treat with neutralizing solution: mixture of water (80%) with non-ionic surfactant Tergitol TMN-10 (20%); or water (90%), concentrated ammonia (3-8%) and detergent (2%). 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

Handling procedures.....	Avoid breathing vapours or mist. Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. Always adopt precautionary measures against build-up of static which may arise from appliances, handling and the containers in which product is packed. Ground handling equipment. Handle and open container with care. Employees should wash hands and face before eating or drinking. Keep away from heat, sparks, and open flame.
Storage needs.....	Keep away from heat, sparks, and open flames. Keep container closed when not in use. Store away from oxidizing and reducing materials. Store away from sunlight.

SECTION 08: Exposure controls / personal protection

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Acetone	500 ppm	750 ppm	1,000 ppm	Not established	250 ppm	
Toluene	20 ppm	Not established	200 ppm	500 ppm 10 minutes	100 ppm / STEL 150 ppm	
Acrylic polymer	No data No data	No data	No data	No data	No data	
Isopropyl Alcohol	200 ppm	400 ppm	400 ppm (TWA)	500 ppm	400 ppm	
Protective equipment						
Eye/type.....						Liquid chemical goggles.
Respiratory/type.....						Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits.
Gloves/ type.....						Chemical resistant gloves.
Clothing/type.....						Wear adequate protective clothes.
Footwear/type.....						Safety boots per local regulations.

PRODUCT: PF 946C MOLDING ADHESION PROMOTER**SECTION 08: Exposure controls / personal protection**

Other/type..... Emergency showers and eye wash stations should be available.
 Appropriate engineering controls..... Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits. Local mechanical exhaust ventilation should be used at sources of air contamination, such as open process equipment, or during purging operations, to capture gases and fumes that may be emitted. Standard reference sources regarding industrial ventilation (ie. ACGIH industrial ventilation) should be consulted for guidance about adequate ventilation. .

SECTION 09: Physical and chemical properties

Physical state..... Liquid.
 Colour..... Colourless.
 Odour..... Sweet mint-like odour.
 Odour threshold (ppm)..... Not available.
 Vapour pressure (mm Hg)..... 184 mm Hg @ 20C.
 Vapour density (air=1)..... 2.0.
 pH..... No data.
 Relative Density (Specific Gravity)..... 0.8.
 Melting / Freezing point (deg C)..... Not Available.
 Solubility..... Soluble.
 Initial boiling point / boiling range (deg C). 56°C.
 Evaporation rate..... 11.6. (butyl acetate = 1).
 Flash point (deg C), method..... -15 Tag Closed Cup.
 Auto ignition temperature (deg C)..... Not available.
 Upper flammable limit (% vol)..... 12.8.
 Lower flammable limit (% vol)..... 2.6.
 Coefficient of water/oil distribution..... Not available.
 % Volatile by volume..... Not Available.
 VOC..... 0.35 lb/USG .

SECTION 10: Stability and reactivity

Reactivity Avoid heat, sparks and flames. Explosive reactions can occur in the presence of strong oxidizing agents.
 Chemical stability..... Stable at normal temperatures and pressures.
 Possibility of hazardous reactions..... Will not occur under normal temperature and pressure.
 Conditions to avoid..... Keep away from heat. Incompatible with strong oxidizers.
 Hazardous decomposition products..... Oxides of carbon (CO,CO2). Unidentified organic compounds.

SECTION 11: Toxicological information

INGREDIENTS	LC50	LD50
Acetone	50,100 mg/m3 8 hours rat inhalation	5,800 mg/kg rat oral
Toluene	8000 ppm rat inhalation 400 ppm mouse inhalation 24hr	5,000 mg/kg rat oral; 12,124 mg/kg rabbit dermal
Acrylic polymer	No data	No data
Isopropyl Alcohol	16,000 ppm 8 hours rat	5,000 mg/kg rat oral. 12,800 mg/kg rabbit dermal
Route of exposure.....	Eye contact. Skin contact. Inhalation. Ingestion.	
Effects of acute exposure.....	Inhalation of higher concentration may result in central nervous system depression and unconsciousness. Inhalation of vapours or mist may cause drowsiness or dizziness. Mild skin irritant. Causes serious eye irritation.	
Effects of chronic exposure.....	Prolonged overexposure may cause central nervous system depression with narcotic effects (headaches, dizziness, unconsciousness). Prolonged or repeated skin contact may cause drying or cracking of skin.	
Carcinogenicity of material.....	The components of this product are not listed by IARC, NTP or regulated as a carcinogen by OSHA.	
Reproductive effects.....	Acetone has been shown to cause reproductive effects in rats by ingestion and inhalation. Toluene is fetotoxic in rats and mice at maternally toxic levels. Prolonged and repeated exposure of pregnant animals (>1500 ppm) to Toluene have been reported to cause adverse fetal developmental effects.	

PRODUCT: PF 946C MOLDING ADHESION PROMOTER**SECTION 12: Ecological information**

Environmental..... Do not allow to enter waters, waste water or soil.
 Persistence and degradability..... Not available.

SECTION 13: Disposal considerations

Waste disposal..... Empty containers must be handled with care due to product residue. Dispose of as an industrial waste in a manner acceptable to good waste management practice and in accordance with applicable local, provincial/State or federal regulations.

SECTION 14: Transport information

TDG Classification..... UN1133 - ADHESIVES containing flammable liquid - Class 3 - PG II - This product meets the criteria for Limited Quantity Exemptions when packaged in containers equal to or less than 5 litres.
 DOT Classification (Road)..... UN1133 - ADHESIVES containing flammable liquid - Class 3 - Packing Group II - Ltd Qty (1 Liters/0.3 Gallons). Refer to 49CFR 172.101 for additional non-bulk packaging requirements.
 IATA Classification (Air)..... UN1133 - ADHESIVES containing flammable liquid - Class 3 - Packing Group II. Limited Quantity.
 IMDG Classification (Marine)..... UN1133 - ADHESIVES containing flammable liquid - Class 3 - Packing Group II EmS: F-E S-E. Limited Quantity.
 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

WHMIS 1988 classification..... B2, D2A, D2B.
 CEPA status..... A component of this product is not on the NDSL.
 TSCA inventory status..... Not all components are listed.
 OSHA..... This product is considered hazardous under the OSHA Hazard Communication Standard.
 SARA Title III
 Section 302 - extremely hazardous None.
 substances
 Section 311/312 - hazard categories..... Immediate health, delayed health, fire hazard.
 Section 313..... Toluene. Isopropyl alcohol.
 EPA hazardous air pollutants (HAPS) Toluene.
 40CFR63
 California Proposition 65..... *WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. (Toluene).

SECTION 16: Other information

Prepared by: REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com.
 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.
 Preparation date: OCT 11/2017