



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

PRODUCT: PF 222 CONTROLLED FLOW SEAM SEALER PART A

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 222 CONTROLLED FLOW SEAM SEALER PART A

Recommended use and restrictions on .. Sealer.
use

Chemical family..... Mixture.

NFPA rating..... Health: 2 Fire: 1 Reactivity: 0.

HMIS..... H: 2* F: 1 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..... WARNING.

Hazard Classification..... Acute Toxicity 4. Skin Irritation — Category 2. Skin Sensitizer — Category 1. Eye Irritant 2.

Hazard Description..... H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

Prevention..... P264 Wash thoroughly after handling. P270 Do not eat drink or smoke while using this product. P280 Wear protective gloves and eye protection. P261 Avoid breathing mists, vapours and sprays. P272 Contaminated work clothing should not be allowed out of the workplace.

Response P301 + P312 If swallowed call a poison control centre. P330 Rinse mouth. P302 + P352 - If on skin: wash with plenty of water. P312 Call a POISON CENTER/doctor if you feel unwell. P362 + P364 - Take off contaminated clothing and wash before reuse. P333 + P313 If skin irritation or rash occurs, get medical advice/attention. 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. P321 - For specific treatment see section 4 on this SDS.

Storage..... See section 7.

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

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Bisphenol A Epoxy Resin	25068-38-6	60-70

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.

PRODUCT: PF 222 CONTROLLED FLOW SEAM SEALER PART A**SECTION 04: FIRST-AID MEASURES**

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, CO₂, dry chemical. Water spray.
 Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products Oxides of carbon (CO, CO₂).
 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.

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

Precautions for safe handling..... Keep away from heat, sparks, and open flame. Always adopt precautionary measures against build-up of static which may arise from appliances, handling and the containers in which product is packed. Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. Avoid breathing vapours or mist. Handle and open container with care. Employees should wash hands and face before eating or drinking.
 Conditions for safe storage, including any incompatibilities 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	ACGIH TLV		OSHA PEL		NIOSH
	TWA	STEL	PEL	STEL	
Bisphenol A Epoxy Resin	Not established	Not established	Not established	Not established	Not established
Personal 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. Butyl rubber. Nitrile rubber. Vitron.				
Clothing/type.....	Wear adequate protective clothes.				
Footwear/type.....	Safety boots per local regulations.				
Other/type.....	Emergency showers and eye wash stations should be available.				
Appropriate engineering controls.....	Local exhaust at points of emission.				

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state..... Thick liquid. Paste.
 Colour..... Pale yellow.
 Odour..... Little or no odour.
 Odour threshold (ppm)..... Not available.
 Vapour pressure (mm Hg)..... 4.6 x 10.8 Pa (@ 25C).
 Vapour density (air=1)..... No data.
 pH..... 6.0 - 8.0.
 Relative Density (Specific Gravity)..... 1.17.
 Melting / Freezing point (deg C)..... -16.
 Solubility..... Insoluble.
 Initial boiling point / boiling range (deg C). > 204.
 Evaporation rate..... No data.
 Flash point (deg C), method..... 266.
 Auto ignition temperature (deg C)..... Not available.
 Upper flammable limit (% vol)..... No data.
 Lower flammable limit (% vol)..... No data.

PRODUCT: PF 222 CONTROLLED FLOW SEAM SEALER PART A**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Partition coefficient — n-octanol/water..... Not available.
 VOC (less water)..... 0.0 g/L - 0.0 lb/usg.
 Viscosity..... 11500 - 13500 cPs (@25 C).

SECTION 10: STABILITY AND REACTIVITY

Chemical stability..... Stable at normal temperatures and pressures.
 Reactivity Polymerization with heat buildup when in contact with aliphatic amine.
 Conditions to avoid, including static Keep away from heat. Incompatible with strong oxidizers. Strong acids. Strong bases.
 discharge, shock or vibration Amines.
 Hazardous decomposition products..... Oxides of carbon (CO,CO2). Chloro hydrogen.
 Possibility of hazardous reactions..... Hazardous polymerization will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Bisphenol A Epoxy Resin	Not Available	>10000 mg/kg (rat oral)
Route of exposure.....	Eye contact. Skin contact. Inhalation.	
Effects of acute exposure.....	Causes skin irritation. Causes serious eye irritation. Ingestion may cause adverse health effects.	
Effects of chronic exposure.....	Overexposure to vapour may cause central nervous system depression. Prolonged or repeated exposure may lead to allergic skin reactions.	
Sensitizing capability of material.....	Skin contact may cause an allergic skin reaction.	
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.	
Reproductive effects.....	No data on reproductive effects were found in the literature sources consulted.	

SECTION 12: ECOLOGICAL INFORMATION

Environmental..... H411 Toxic to aquatic life with long lasting effects. 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 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..... UN3082 - ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A epoxy resin), Class 9, PG III. This product meets limited quantity exemption when shipped in containers less than 5 litres.
 IATA Classification (Air)..... UN3082 - ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A epoxy resin), Class 9, PG III. This product meets limited quantity exemption when maximum net quantity per inner packaging is 30 mL. and maximum net quantity per outer packaging is 500 mL.
 IMDG Classification (Marine)..... UN3082 - ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A epoxy resin), Class 9, PG III.
 Marine Pollutant..... Yes.
 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..... D2A. D2B.
 CEPA status..... On Domestic Substances List (DSL).
 TSCA inventory status..... 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.
 Section 313..... None.
 EPA hazardous air pollutants (HAPS) None.
 40CFR63
 California Proposition 65..... No data.

PRODUCT: PF 222 CONTROLLED FLOW SEAM SEALER PART A

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.

Review Date:..... 2022-11-30.
 Date of the latest revision of the safety .. 2017-07-18
 data sheet



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

PRODUCT: PF 222 CONTROLLED FLOW SEAM SEALER PART B

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 222 CONTROLLED FLOW SEAM SEALER PART B

Recommended use and restrictions on .. Sealer.
use

Chemical family..... Mixture.

NFPA rating..... Health: 3 Fire: 1 Reactivity: 1.

HMIS..... H: 3 F: 1 R: 1.

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..... WARNING.

Hazard Classification..... Corrosive to metals 1. Skin Irritation — Category 3. Skin Sensitizer — Category 1. Eye Irritant 2.

Hazard Description..... H290 May be corrosive to metals. H316 Causes mild skin irritation. H317 May cause an allergic skin reaction. H320 Causes eye irritation.

Prevention..... P234 Keep only in original packaging. P261 Avoid breathing mists, vapours and sprays. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves and eye protection. P264 Wash thoroughly after handling.

Response P390 Absorb spillage to prevent material-damage. P302 + P352 - If on skin: wash with plenty of water. P333 + P313 If skin irritation or rash occurs, get medical advice/attention. P321 - For specific treatment see section 4 on this SDS. P362 + P364 - Take off contaminated clothing and wash before reuse. 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.

Storage..... P406 Store in a corrosion resistant container with a resistant inner liner.

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

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
2,4,6-Tris(Dimethylaminomethyl) Phenol	90-72-2	10-30
Bis-((Dimethylamino)methyl) phenol	71074-89-0	10-30

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.

PRODUCT: PF 222 CONTROLLED FLOW SEAM SEALER PART B**SECTION 04: FIRST-AID MEASURES**

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, CO₂, dry chemical.
 Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products Oxides of carbon (CO, CO₂).
 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.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak/spill..... Ventilate. Eliminate all sources of ignition. Evacuate all non-essential personnel. Avoid all personal contact. Contain the spill. 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

Precautions for safe handling..... Keep away from heat, sparks, and open flame. 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. Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. Avoid breathing vapours or mist. Handle and open container with care. Employees should wash hands and face before eating or drinking.
 Conditions for safe storage, including any incompatibilities Keep away from heat, sparks, and open flames. Keep container closed when not in use. Store away from oxidizing and reducing materials.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
2,4,6-Tris(Dimethylamino methyl) Phenol	Not established	Not established	Not established	Not established	Not established	Not established
Bis-((Dimethylamino)methyl) phenol	Not established	Not established	Not established	Not established	Not established	Not established
Personal 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. Butyl rubber. Nitrile rubber. Vitron.					
Clothing/type.....	Wear adequate protective clothes.					
Footwear/type.....	Safety boots per local regulations.					
Other/type.....	Emergency showers and eye wash stations should be available.					
Appropriate engineering controls.....	Local exhaust at points of emission.					

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state..... Paste.
 Colour..... Light yellow.
 Odour..... Sweet odour.
 Odour threshold (ppm)..... Not available.
 Vapour pressure (mm Hg)..... 0.13 kpa.
 Vapour density (air=1)..... 7.59.
 pH..... Slightly acidic.
 Relative Density (Specific Gravity)..... 1.10.
 Melting / Freezing point (deg C)..... Not available.
 Solubility..... Insoluble in water.
 Initial boiling point / boiling range (deg C). No data.
 Evaporation rate..... No data.

PRODUCT: PF 222 CONTROLLED FLOW SEAM SEALER PART B**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Flash point (deg C), method..... > 93°C.
 Auto ignition temperature (deg C)..... Not available.
 Upper flammable limit (% vol)..... 7.0.
 Lower flammable limit (% vol)..... 1.0.
 Partition coefficient — n-octanol/water..... Not available.
 VOC (less water)..... No data.
 Viscosity..... Not available.

SECTION 10: STABILITY AND REACTIVITY

Chemical stability..... Stable at normal temperatures and pressures.
 Reactivity In the presence of oxidizing materials. Avoid heat, sparks and flames.
 Conditions to avoid, including static Incompatible with strong oxidizers. Water reactive.
 discharge, shock or vibration
 Hazardous decomposition products..... Thermal decomposition may produce acrid smoke and irritating fumes.
 Possibility of hazardous reactions..... Hazardous polymerization will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
2,4,6-Tris(Dimethylaminomethyl) Phenol	>0.5 mg/L 1Hr Inhalation, Rat	1200 mg/kg oral rat 1280 mg/kg dermal rabbit
Bis-((Dimethylamino)methyl) phenol	Not Available	Not Available
Route of exposure.....	Eye contact. Skin contact. Inhalation.	
Effects of acute exposure.....	Can cause chemical burns. Causes skin irritation. Causes serious eye irritation.	
Effects of chronic exposure.....	Prolonged or repeated exposure may lead to allergic skin reactions. Overexposure to vapour may cause central nervous system depression.	
Sensitizing capability of material.....	May cause sensitization by skin contact.	
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.	

SECTION 12: ECOLOGICAL INFORMATION

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

SECTION 13: DISPOSAL CONSIDERATIONS

Information on safe handling for disposal and methods of disposal, including any contaminated packaging . 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..... UN2735 - AMINES, LIQUID, CORROSIVE, N.O.S. (Tris-2,4,6-(Dimethylaminomethyl) Phenol) - Class 8 - Packing Group III - This product meets the Limited Quantity exemption when packaged in containers less than 5 liters. Limited Quantity exemption when packaged in containers less than 5 liters.
 IATA Classification (Air)..... UN2735 - AMINES, LIQUID, CORROSIVE, N.O.S. (Tris-2,4,6-(Dimethylaminomethyl) Phenol) - Class 8 - Packing Group III .
 IMDG Classification (Marine)..... UN2735 - AMINES, LIQUID, CORROSIVE, N.O.S. (Tris-2,4,6-(Dimethylaminomethyl) Phenol) - Class 8 - Packing Group III - EmS: F-E S-E.
 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).
 TSCA inventory status..... 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.
 Section 313..... None.

PRODUCT: PF 222 CONTROLLED FLOW SEAM SEALER PART B**SECTION 15: REGULATORY INFORMATION**

EPA hazardous air pollutants (HAPS) None.

40CFR63

California Proposition 65..... This product does not contain any chemical(s) known to the State of California to cause cancer or reproductive toxicity.

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.

Review Date:..... 2022-11-30.

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data sheet