



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

PRODUCT: PF 691 MEDIUM COMPLIANT THINNER

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 691 MEDIUM COMPLIANT THINNER

Recommended use and restrictions on .. Paint thinner.
use

Chemical family..... Mixture.

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

HMIS..... H: 2 F: 3 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 Irritation — Category 2. Eye Irritant 2.

Hazard Description..... H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation.

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. P280 Wear protective gloves and eye 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. P302 + P352 - If on skin: wash with plenty of water. P332 + P313 - If skin irritation occurs get medical attention or advice. P362 + P364 - Take off contaminated clothing and wash before reuse. P321 - For specific treatment see section 4 on this SDS.

Storage..... P403 + P235 Store in well ventilated area. Keep cool.

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. % |
|----------------------------|---------|--------|
| 4-Chlorobenzotrifluoride | 98-56-6 | 60-100 |
| Acetone | 67-64-1 | 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. Consult a physician if irritation continues.

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.

PRODUCT: PF 691 MEDIUM COMPLIANT THINNER**SECTION 04: FIRST-AID MEASURES**

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| Ingestion..... | If swallowed, do not induce vomiting. Give large quantity of water. Call a physician immediately. 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. |
| 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

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| Suitable and unsuitable extinguishing media | Carbon dioxide, dry chemical, foam. Where foam or a water jet is used, the risk of delayed boiling ("fat explosion") must be taken into account. Never use direct water jet. |
| Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products | Thermal decomposition products are toxic. May include: hydrogen chloride, hydrogen fluoride, Oxides of carbon (CO, CO ₂). |
| 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. 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. Keep run-off water from entering sewers and other waterways. Dike for water control. |

SECTION 06: ACCIDENTAL RELEASE MEASURES

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| Leak/spill..... | Isolate area and keep unauthorized people away. Do not walk through spilled material. Wear recommended protective equipment. Ventilate. Eliminate all sources of ignition. Contain the spill. Avoid all personal contact. 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. 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%). |
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SECTION 07: HANDLING AND STORAGE

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| Precautions for safe handling..... | 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. Avoid breathing vapours or mist. 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. |
| 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 materials and all sources of ignition. |

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

| INGREDIENTS | TWA | ACGIH TLV STEL | PEL | OSHA PEL STEL | REL NIOSH |
|---------------------------------------|---|-------------------|-----------------|------------------|-----------------|
| 4-Chlorobenzotrifluoride | Not established | Not established | Not established | Not established | Not established |
| Acetone | 250 ppm TLV CA ON: 500ppm (TWA); 750ppm (STEL) | 500 ppm | 1,000 ppm | Not established | 250 ppm |
| Personal Protective Equipment | | | | | |
| Eye/type..... | Liquid chemical goggles. | | | | |
| Gloves/ type..... | Chemical resistant gloves. | | | | |
| Clothing/type..... | Wear adequate protective clothes. | | | | |
| Footwear/type..... | Safety boots per local regulations. | | | | |
| Respiratory/type..... | Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits. | | | | |
| 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. | | | | |

PRODUCT: PF 691 MEDIUM COMPLIANT THINNER**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

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| Appearance/Physical state..... | Liquid. |
| Colour..... | No data. |
| Odour..... | Solvent odour. Fruity odour. |
| Odour threshold (ppm)..... | Not available. |
| pH..... | No data. |
| Melting / Freezing point (deg C)..... | < -33 °C. |
| Initial boiling point / boiling range (deg C)..... | > 56 °C. |
| Flash point (deg C), method..... | -18°C Tag Closed Cup. |
| Evaporation rate..... | > 1.0. |
| Upper flammable limit (% vol)..... | 12.6. |
| Lower flammable limit (% vol)..... | 0.9. |
| Vapour pressure (mm Hg)..... | > 5.3 mmHg @ 20C. |
| Vapour density (air=1)..... | > 2. |
| Relative Density (Specific Gravity)..... | 10.1 lbs/USG - 1.2 g/mL. |
| Solubility..... | No data. |
| Partition coefficient — n-octanol/water..... | Not available. |
| Auto ignition temperature (deg C)..... | Not available. |
| % Volatile by volume..... | 100. |
| VOC (less water)..... | 2.0 lb/gal, . |
| Decomposition temperature..... | Not available. |
| Viscosity..... | 14 sec. Zahn #2. |

SECTION 10: STABILITY AND REACTIVITY

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| 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..... | Hazardous polymerization will not occur. |
| Conditions to avoid, including static | Oxidizing agents. Strong acids. Strong alkalis. Lewis or mineral acids. Keep away from heat. |
| discharge, shock or vibration | |
| Hazardous decomposition products..... | See hazardous combustion products section 5. |

SECTION 11: TOXICOLOGICAL INFORMATION

| INGREDIENTS | LC50 | LD50 |
|----------------------------------|--|--|
| 4-Chlorobenzotrifluoride | 4479 ppm | >6,800 mg/kg (rat oral); >2,700 mg/kg (rabbit dermal) |
| Acetone | 50,100 mg/m3 8 hours, rat | 5,800 mg/kg (rat oral) |
| Route of exposure..... | Eye contact. Skin contact. Inhalation. | |
| Effects of acute exposure..... | Excessive vapours may cause nasal and respiratory tract irritation. Moderate eye irritant. Contact with skin may cause moderate to severe irritation. | |
| Effects of chronic exposure..... | Prolonged or repeated skin contact may cause drying or cracking of skin. Chronic exposure to organic solvents may cause permanent brain and nervous system damage. Inhalation of vapour concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. | |
| Carcinogenicity of material..... | Acetone may contain trace amounts of benzene, a chemical known to cause cancer. | |

SECTION 12: ECOLOGICAL INFORMATION

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| Environmental..... | Harmful to aquatic life. Do not allow to enter waters, waste water or soil. |
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SECTION 13: DISPOSAL CONSIDERATIONS

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| Information on safe handling for disposal and methods of disposal, including any contaminated packaging | This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Empty containers must be handled with care due to product residue. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not heat or cut empty containers with electric or gas torch. |
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SECTION 14: TRANSPORT INFORMATION

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| TDG Classification..... | UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - This product meets the Limited Quantity exemption when packaged in containers less than 5 liters. |
| IATA Classification (Air)..... | UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II. |
| IMDG Classification (Marine)..... | UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - EmS: F-E S-E. |
| Marine Pollutant..... | No. |

PRODUCT: PF 691 MEDIUM COMPLIANT THINNER**SECTION 15: REGULATORY INFORMATION**

WHMIS 1988 classification..... B2, D2B.
CEPA status..... On Domestic Substances List (DSL).
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..... None.
EPA hazardous air pollutants (HAPS) None.
40CFR63
TSCA inventory status..... All components are listed.
California Proposition 65..... This product does not contain any chemical(s) listed on California's Proposition 65.

SECTION 16: OTHER INFORMATION

Prepared by: 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.
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data sheet