



Pro Form Products Ltd.
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PRODUCT: PF 564 E-COAT DTM PRIMER 3 IN 1 (FIELD DRAB)

SECTION 01: IDENTIFICATION

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

Product identifier..... PF 564 E-COAT DTM PRIMER 3 IN 1 (FIELD DRAB)

Recommended use and restrictions on .. Paints.
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 Aerosols — Category 1. Gases Under Pressure: Liquefied Gas. Aspiration Toxicity 1. Skin Irritation — Category 2. Skin Sensitizer — Category 1. Eye Irritation — Category 2A. Specific Target Organ Toxicity — Single Exposure — Category 3. (narcotic effects). (respiratory system). Carcinogenicity — Category 2. Reproductive Toxicity — Category 2.

Hazard Description..... H222 Extremely flammable aerosol. H229 Pressurized container: may burst if heated. H280 Contains gas under pressure; may explode if heated. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 This product contains ingredients that are suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child.

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. P211 Do not spray on an open flame or other ignition sources. P251 Do not pierce or burn container, even after use. 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.

Response P301 + P310 If swallowed IMMEDIATELY CALL A POISON CONTROL CENTRE and follow instructions provided by the centre. P331 Do NOT induce vomiting. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell. 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. P362 + P364 - Take off contaminated clothing and wash before reuse. P333 + P313 If skin irritation or rash occurs, get medical advice/attention.

Storage..... P233 Keep container tightly closed. P403 Store in a well ventilated area. P405 Store locked up. P410 Protect from sunlight. P412 Do not expose to temperature exceeding 50°C / 122°F.

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

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

PRODUCT: PF 564 E-COAT DTM PRIMER 3 IN 1 (FIELD DRAB)**SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Acetone	67-64-1	15-40
Isobutyl Acetate	110-19-0	10-30
Propane	74-98-6	10-30
Isobutane	75-28-5	5-10
Methyl Isobutyl Ketone	108-10-1	5-10
2-Propanol, 1-methoxy-, acetate	108-65-6	1-5
Titanium Dioxide	13463-67-7	1-5
Ethyl 3-Ethoxypropionate	763-69-9	1-5
Toluene	108-88-3	0.1-1
Xylene	1330-20-7	0.1-1
Ethylbenzene	100-41-4	0.1-1

<<The actual concentration(s) withheld as a trade secret>>

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.....	Immediately remove all contaminated clothing, flush skin with water for at least 15 minutes. 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.....	If ingestion is suspected, contact physician or poison control center immediately. Do not induce vomiting. 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.
Most important symptoms and effects, whether acute or delayed	Harmful if swallowed, in contact with skin or if inhaled. The main hazard from ingestion is aspiration of the liquid into the lungs producing chemical pneumonitis. Can cause skin sensitization. Causes skin irritation. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. This product contains ingredients that may cause cancer. This product contains ingredients that are suspected of damaging fertility or the unborn child.
Immediate medical attention and special treatment needed, if necessary	In case of shortness of breath give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
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. The water spray reduces the intensity of the flames. However, water jets can promote the spread of fire. Do not use water in a jet.
Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products	Extremely flammable aerosol. Aerosol can will explode if heated. Thermal decomposition products are toxic. May include: Oxides of carbon (CO, CO ₂). Hydrocarbon fumes and smoke.
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.
Unusual fire / explosion hazards.....	Extremely flammable aerosol. Vapours can travel to a source of ignition and flash back causing an explosion and fire.

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. Use non-sparking tools and equipment to pick up the spilled material.
Methods and materials for containment and cleaning up	

PRODUCT: PF 564 E-COAT DTM PRIMER 3 IN 1 (FIELD DRAB)**SECTION 06: ACCIDENTAL RELEASE MEASURES**

Leak/spill..... Keep away from heat, sparks and flames. Ventilate. Eliminate all sources of ignition. Evacuate all non-essential personnel. Contain the spill. Prevent runoff into drains, sewers, and other waterways. Avoid all personal contact. Use non-sparking tools and equipment to pick up the spilled material. Absorb with an inert dry material and place in an appropriate waste container. 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..... Extremely flammable. Keep away from heat, sparks, and open flame. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. Avoid breathing vapours or mist. Prevent accumulation of electrostatic charges. 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. Employees should wash hands and face before eating or drinking. Handle and open container with care.

Conditions for safe storage, including any incompatibilities Keep away from heat, sparks, and open flames. Store away from oxidizing and reducing materials. Store away from sunlight. Keep container closed when not in use. Do not store above 50 deg C.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Acetone	250 ppm TLV CA ON: 500ppm (TWA); 750ppm (STEL)	500 ppm	1,000 ppm	Not established	250 ppm
Isobutyl Acetate	50 ppm	150 ppm	150 ppm	Not established	150 ppm
Propane	1,000 ppm	Not established	1,000 ppm	Not established	1,000 ppm
Isobutane	Not established	Not established	Not established	Not established	800 ppm
Methyl Isobutyl Ketone	50 ppm ON: 20 ppm (TWA), 75 ppm (STEL)	75 ppm	100 ppm	Not established	50 ppm / STEL 75 ppm
2-Propanol, 1-methoxy-, acetate	50 ppm	75 ppm	Not established	Not established	Not established
Titanium Dioxide	10 mg/m3 CA ON: 10 mg/m3 (TWA)	Not established	15 mg/m3	Not established	Not established
Ethyl 3-Ethoxypropionate	Not established	Not established	Not established	Not established	Not established
Toluene	20 ppm CA ON: TWA: 20 ppm	Not established	200 ppm	500 ppm 10 minutes	100 ppm / STEL 150 ppm
Xylene	50 ppm CA ON: 100ppm (TWA); 150ppm (STEL)	150 ppm	100 ppm TWA	Not established	Not established
Ethylbenzene	100 ppm CA ON: 20ppm (TWA)	125 ppm	100 ppm	Not established	100 ppm / STEL 125 ppm
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. Explosion-proof exhaust ventilation.				
Personal Protective Equipment					
Respiratory/type.....	Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits.				
Eye/type.....	Wear eye protection if there is a risk of splashing. The selection of this equipment depends on the nature of the work to be performed and, if applicable, the type of respirator used.				

PRODUCT: PF 564 E-COAT DTM PRIMER 3 IN 1 (FIELD DRAB)**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

Gloves/ type..... Chemical resistant gloves. Wear skin protection equipment. The selection of this equipment depends on the nature of the work to be done.

Clothing/type..... Wear adequate protective clothes.

Footwear/type..... Safety boots per local regulations.

Other/type..... Emergency showers and eye wash stations should be available. Employees should wash their hands and face before eating, drinking, or using tobacco products.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state..... Aerosol.

Colour..... Field drab.

Odour..... Sweet odour.

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

pH..... No data.

Melting / Freezing point (deg C)..... > -95°C . (acetone).

Initial boiling point / boiling range (deg C)..... 56°C (133 F). (acetone).

Flash point (deg C), method..... -18°C. (estimate; lowest flash point ingredient).

Evaporation rate..... No data.

Flammability (solids and gases)..... Flammable aerosol.

Upper flammable limit (% vol)..... 9.5. (Propane).

Lower flammable limit (% vol)..... 2.0. (Propane).

Vapour pressure (mm Hg)..... No data.

Vapour density (air=1)..... >1.

Relative Density (Specific Gravity)..... 0.82 - 0.86.

Pounds / USG..... 6.84 - 7.18.

Solubility..... Not soluble in water.

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

Auto ignition temperature (deg C)..... 450°C. (Propane).

Decomposition temperature..... Not available.

Viscosity..... No data.

% Volatile by weight..... No data.

VOC (less water)..... 3.8 lbs/USG.

SECTION 10: STABILITY AND REACTIVITY

Reactivity Avoid heat, sparks and flames.

Chemical stability..... Stable at normal temperatures and pressures.

Possibility of hazardous reactions..... Will not occur under normal temperature and pressure.

Conditions to avoid, including static Keep away from heat. Electrostatic charge.

discharge, shock or vibration

Incompatible materials..... Strong oxidizing agents. Nitric acid.

Hazardous decomposition products..... See hazardous combustion products section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Acetone	50,100 mg/m ³ 8 hours, rat	5,800 mg/kg (rat oral)
Isobutyl Acetate	>13.24 mg/L /6 h rat	15400 mg/kg (rat oral), >17400 mg/kg (rabbit dermal)
Propane	>1,464 mg/L 15 minutes rat	Not available
Isobutane	52 mg/L 1 hour mouse	Not available
Methyl Isobutyl Ketone	8.2 - 16.4 mg/L 4 hours rat	2080 mg/kg (rat oral) >16,000 mg/kg (rabbit dermal)
2-Propanol, 1-methoxy-, acetate	Not Available	8,532 mg/kg rat oral 5,000 mg/kg dermal rabbit
Titanium Dioxide	>6.8 mg/L (4 hr)	>10,000 mg/kg (rat, oral) >10,000 mg/kg (rabbit, dermal)
Ethyl 3-Ethoxypropionate	>998 ppm 6 hours	4,309 mg/kg rat oral 4,080 mg/kg rabbit dermal
Toluene	8000ppm (rat inhalation) 400ppm mouse (inhalation 24hr)	5,000 mg/kg (rat ora); 12,124 mg/kg (rabbit dermal)
Xylene	6350 ppm 4 hours rat	>3523 mg/kg rat oral

PRODUCT: PF 564 E-COAT DTM PRIMER 3 IN 1 (FIELD DRAB)**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
Ethylbenzene	No data	3,500 mg/kg rat oral 17,800 mg/kg rabbit dermal
Route of exposure.....	Eye contact. Skin contact. Inhalation. Ingestion.	
Effects of acute exposure.....	This product is harmful if inhaled or swallowed. Can cause moderate skin irritation. Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Skin contact with adhesive that is not fully cured may cause an allergic skin reaction or other skin irritation. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use. Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. Swallowing this material may cause burns and destroy tissue in the mouth, throat, and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury. Breathing this material may be harmful or fatal. Symptoms may include severe irritation and burns to the nose, throat, and respiratory tract. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.). Prolonged or repeated breathing of dust may result in progressive and permanent lung disease (fibrosis) which may cause death from respiratory and/or heart failure. Symptoms include coughing and difficult breathing which becomes worse with physical activity. Another form of fibrosis, acute silicosis, can occur with exposures to very high concentrations of respirable silica over shorter periods of time, sometimes as short as a few months. Symptoms of acute silicosis include progressive shortness of breath, fever, cough and weight loss. Acute silicosis is fatal. Breathing of glass fibers can cause short-term irritation of the mouth, nose, and throat. Other symptoms may include coughing and wheezing. Because of the structure of the fibers, they do not enter the lungs (See Other Health Effects). Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal. Inhalation of vapors may cause central nervous system depression resulting in headache, dizziness, drunkenness, fatigue, drowsiness, nausea and reduced performance during some neurobehavioral tests.	
Effects of chronic exposure.....	Breathing high concentrations of vapour may cause anesthetic effects and serious health effects. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.	
Carcinogenicity of material.....	Ethylbenzene is classified as an A3 known animal carcinogen. IARC has classified Titanium Dioxide as a group 2B carcinogen. IARC has classified Toluene as a Group 3 (Not classifiable as to its carcinogenicity to humans); ACGIH has classified Toluene as a Group A4 (Not classifiable as a human carcinogen).	
Reproductive effects.....	High level exposure to Xylene in some animal studies have been reported to cause health effects on the developing embryo/fetus. The relevance of this to humans is not known. Chronic exposure to Ethylbenzene has been associated with reproductive effects among women. 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.	
Sensitizing capability of material.....	May cause sensitization by skin contact. May cause sensitization by inhalation.	
Specific Target Organ Toxicity	May cause drowsiness or dizziness. May cause respiratory irritation.	

SECTION 12: ECOLOGICAL INFORMATION

Environmental..... Do not allow to enter waters, waste water or soil.
Persistence and degradability..... Product data 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. Do not heat or cut empty containers with electric or gas torch. 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..... UN1950 - AEROSOLS, flammable - Class 2.1 - This product meets limited quantity exemption when shipped in containers less than 1 Litre.
DOT Classification (Road)..... UN1950 - AEROSOLS, flammable - Class 2.1 - Ltd Qty (1 Liter/0.26 Gallons). Refer to 49CFR 172.101 for additional non-bulk packaging requirements.
IATA Classification (Air)..... UN1950 - AEROSOLS, flammable - Class 2.1 - Limited Quantity. Do not ship by air without checking appropriate IATA regulations.

PRODUCT: PF 564 E-COAT DTM PRIMER 3 IN 1 (FIELD DRAB)**SECTION 14: TRANSPORT INFORMATION**

IMDG Classification (Marine)..... UN1950 - AEROSOLS - Class 2.1 - EmS: F-D, S-U - Limited Quantity. Check IMDG regulations for limited quantity exemptions.
 Marine Pollutant..... Potential marine pollutant.
 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..... Contains ingredient(s) not on the DSL.
 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.
 substances
 Section 311/312 - hazard categories..... Immediate health, delayed health, fire hazard.
 Section 313..... Ethylbenzene. Methyl Isobutyl Ketone. Toluene. Xylene.
 EPA hazardous air pollutants (HAPS) Benzene. Cumene. Ethylbenzene. Manganese Compounds. Methyl Isobutyl Ketone.
 40CFR63 Toluene. Xylene.
 California Proposition 65..... *** ! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause birth defects or other reproductive harm. (Toluene). (Benzene (D)). (N-methyl pyrrolidone (nmp)). *** ! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause cancer . (Benzene). (Cumene). (Ethyl benzene). (Silica, crystalline (airborne particles of respirable size)). (Titanium dioxide - airborne, unbound particles of respirable size). For more information, go to www.P65Warnings.ca.gov.

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 .. 2019-07-02
 data sheet