



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

PRODUCT: PF 88201-1 BASECOAT REDUCER FAST LOW VOC

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 88201-1 BASECOAT REDUCER FAST LOW VOC

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 Liquid 2. Skin Irritation — Category 2. Eye Irritation — Category 2A. Specific Target Organ Toxicity — Single Exposure — Category 3. (narcotic effects). (respiratory system).

Hazard Description..... H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

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. P261 Avoid breathing mists, vapours and sprays. P264 Wash thoroughly after handling. P271 Use only outdoors or in a well ventilated area. 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. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell.

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

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.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Acetone	67-64-1	30-60
4-Chlorobenzotrifluoride	98-56-6	30-60
Propylene carbonate	108-32-7	1-5
2-Butoxyethyl Acetate	112-07-2	0.5-1.5

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

PRODUCT: PF 88201-1 BASECOAT REDUCER FAST LOW VOC**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. Obtain 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.....	Do not induce vomiting. Obtain medical attention 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.
Most important symptoms and effects, whether acute or delayed	Causes skin irritation. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. High vapour concentrations may be irritating to the respiratory tract. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
Additional information.....	Treat victims symptomatically. If symptoms such as gag reflex, convulsions or unconsciousness occur before vomiting, gastric lavage with a cuffed endotracheal tube should be considered. 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	Carbon dioxide, dry chemical, foam. Water spray. Do not use water in a jet.
Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products	Oxides of carbon (CO, CO ₂). Chlorine compounds. 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. Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosive rupture. 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. Acetone is a highly flammable liquid. It is easily ignited in the presence of heat, an ignition source such as a naked flame or a spark (including electrostatic discharge). Aqueous solutions of acetone can also ignite. Acetone vapors are heavier than air and can travel a long distance to an ignition source and cause flashback.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up	
Leak/spill.....	Eliminate all sources of ignition. Ventilate area to remove the remaining vapours. Isolate area and keep unauthorized people away. Do not walk through spilled material. Wear proper protective equipment. 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.
Personal precautions, protective equipment and emergency procedures	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.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling.....	Keep away from heat, sparks, and open flame. Containers must be grounded and bonded. Do not use near sources of ignition, open flames or sparks. Do not cut, drill, weld or grind on or near the container. Open containers slowly to allow for any pressure build-up to escape. Keep containers closed when not in use. Avoid skin and eye contact. Avoid breathing vapours or mist. 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. Store in a cool, dry and well ventilated area. Store away from incompatible materials.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Acetone	250 ppm TLV CA ON AB: 500ppm (TWA); 750ppm (STEL)	500 ppm	1,000 ppm	Not established		250 ppm

PRODUCT: PF 88201-1 BASECOAT REDUCER FAST LOW VOC**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	Not established
Propylene carbonate	Not established		Not established		Not established	Not established
2-Butoxyethyl Acetate	20 ppm TLV	Not established	Not established	Not established	5 ppm	
Personal Protective Equipment						
Respiratory/type.....	Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits. Use NIOSH approved respirator or equipment. Do not exceed the use limits of the respirator.					
Eye/type.....	Chemical safety goggles. Chemical safety goggles and full faceshield if a splash hazard exists.					
Gloves/ type.....	Wear skin protection equipment. The selection of skin protection equipment depends on the nature of the work to be performed.					
Clothing/type.....	Wear adequate protective clothes. Wear long sleeves and trousers to prevent dermal exposure.					
Footwear/type.....	Safety boots per local regulations.					
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.					
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.					

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state.....	Liquid.
Colour.....	Colourless.
Odour.....	Fruity odour. Aromatic.
Odour threshold (ppm).....	Not available.
pH.....	Neutral.
Melting / Freezing point (deg C).....	< -33 °C.
Initial boiling point / boiling range (deg C).....	> 56 °C.
Flash point (deg C), method.....	-18°C. (estimate; lowest flash point ingredient).
Evaporation rate.....	11.6. (for Acetone).
Flammability (solids and gases).....	Not applicable. Flammable liquid.
Upper flammable limit (% vol).....	12.6.
Lower flammable limit (% vol).....	0.9.
Vapour pressure (mm Hg).....	No data.
Vapour density (air=1).....	> 2.
Relative Density (Specific Gravity).....	1.004.
Pounds / USG.....	8.38. lbs/USG.
Solubility.....	Moderate.
Partition coefficient — n-octanol/water.....	Not available.
Auto ignition temperature (deg C).....	340°C .
Decomposition temperature.....	Not available.
Viscosity.....	12.9 sec Zahn # 2.
VOC (less water).....	0.08 lbs/USG.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Hazardous polymerization will not occur. 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 discharge, shock or vibration	Avoid heat, spark, open flames. Direct sunlight. Electrostatic discharge can cause a fire and explosion of a mixture of air and acetone vapor when the concentration in air is within explosive limits.
Incompatible materials.....	Strong acids. Strong bases. Strong oxidizers. Reducing agents. Ammonia. Aldehydes. Peroxides. Acetone may form explosive mixtures with: chromic anhydride. hexachloromelamine. chromyl alcohol. Hydrogen peroxide. permonosulfuric acid. thioglycol. Potassium tert-butoxide.
Hazardous decomposition products.....	Oxides of carbon (CO,CO2).

PRODUCT: PF 88201-1 BASECOAT REDUCER FAST LOW VOC**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
Acetone	50,100 mg/m3 8 hours, rat	5,800 mg/kg (rat oral)
4-Chlorobenzotrifluoride	4479 ppm	>6,800 mg/kg (rat oral); >2,700 mg/kg (rabbit dermal)
Propylene carbonate	Not available	>5000 mg/kg (oral, rat) >2000 mg/kg (dermal, rat)
2-Butoxyethyl Acetate	> 450 ppm rat 6h	1,600 mg/kg (rat, oral) 1,480 mg/kg (rabbit, dermal)
Acute Toxicity Estimate (ATE).....	ATE mix (oral): . >8200 mg/kg. ATE mix (dermal):. >3300 mg/kg.	
Route of exposure.....	Eye contact. Skin contact. Inhalation.	
Effects of acute exposure.....	Causes skin irritation. Causes serious eye irritation. Irritating to mucous membranes and upper respiratory tract. Excessive inhalation of this product may cause dizziness.	
Effects of chronic exposure.....	Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.	
Carcinogenicity of material.....	The components of this product are not listed by IARC, NTP or regulated as a carcinogen by OSHA.	
Reproductive effects.....	No known reproductive effects.	
Specific Target Organ Toxicity	May cause drowsiness or dizziness. May cause respiratory irritation.	

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity.....	Product data not available.
Persistence and degradability.....	Not available.
Bioaccumulative potential.....	Not available.
Mobility in soil.....	Not available.
Other adverse effects.....	Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Information on safe handling for disposal and methods of disposal, including any contaminated packaging	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. Do not heat or cut empty containers with electric or gas torch. This material and its container must be disposed of as hazardous waste. Avoid release to the environment.
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SECTION 14: TRANSPORT INFORMATION

TDG Classification.....	UN1263 - PAINT - Class 3 - Packing Group II - This product meets limited quantity exemption when shipped in containers less than 5 litres.
DOT Classification (Road).....	UN1263 - PAINT - Class 3 - Packing Group II - Ltd Qty (1 Liter). Refer to 49CFR 172.101 for additional non-bulk packaging requirements.
IATA Classification (Air).....	UN1263 - PAINT - Class 3 - Packing Group II. Limited Quantity. Do not ship by air without checking appropriate IATA regulations.
IMDG Classification (Marine).....	UN1263 - PAINT - Class 3 - Packing Group II - EmS: F-E S-E. Limited Quantity. 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).
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 substances	Propylene oxide.
Section 311/312 - hazard categories.....	Fire hazard. Immediate health.
Section 313.....	None above De minimus % limit.
EPA hazardous air pollutants (HAPS) 40CFR63	Propylene oxide.
California Proposition 65.....	*** ! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause cancer . (Propylene oxide). For more information, go to www.P65Warnings.ca.gov .

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SECTION 16: OTHER INFORMATION

Prepared by: REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com.
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 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 .. 2019-01-18
 data sheet