



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

PRODUCT: PF602-1 ACETONE

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..... PF602-1 ACETONE

Recommended use and restrictions on .. Paint reducer. for industrial use only-keep out of reach of children .
use

Chemical family..... Aromatic hydrocarbons.

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

Hazard Description..... H225 Highly flammable liquid and vapour. 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. 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	100

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 flush skin with plenty of soap and water. Remove contaminated clothing.
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.

PRODUCT: PF602-1 ACETONE**SECTION 04: FIRST-AID MEASURES**

Ingestion.....	If swallowed, rinse mouth and give a glass of water. Do not induce vomiting as there is danger of pulmonary aspiration. Never give anything by mouth to an unconscious person or who has convulsions. See a doctor. 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	Acetone is a serious eye irritant that can cause reversible damage to the cornea. It is slightly irritating to the skin. 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. Following repeated or prolonged contact, this product has a degreasing effect on the skin. It can cause redness, flaking and cracking.
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. The main hazard from ingestion is aspiration of the liquid into the lungs producing chemical pneumonitis. 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. In cases of larger fires, water spray should be used.
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. Keep run-off water from entering sewers and other waterways. Dike for water control.
Unusual fire / explosion hazards.....	Extremely flammable. Vapours may be heavier than air. May travel long distances along the ground before igniting and flashing back to vapour source.
Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products	Oxides of carbon (CO, CO ₂).

SECTION 06: ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up	Ventilate. Eliminate all sources of ignition. Avoid all personal contact. Evacuate all non-essential personnel. Contain the spill. Prevent runoff into drains, sewers, and other waterways. Absorb with earth, sand, or another dry inert material. 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.
Leak/spill.....	
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. Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. Avoid breathing vapours or mist. 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.
Conditions for safe storage, including any incompatibilities	Store away from all sources of heat and ignition. 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	OSHA PEL STEL	NIOSH REL
Acetone	250 ppm TLV	500 ppm	1,000 ppm	250 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			

PRODUCT: PF602-1 ACETONE**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

Appropriate engineering controls.....	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.
Respiratory/type.....	Local exhaust ventilation is recommended. An air-purifying particulate/organic vapour cartridge respirator is required anytime inhalation of vapour above the exposure limit is possible. .
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.
Gloves/ type.....	Wear skin protection equipment. The selection of skin protection equipment depends on the nature of the work to be performed. The following gloves are recommended :. Butyl rubber gloves. Ethyl vinyl alcohol laminate (EVAL).
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.....	Liquid.
Colour.....	Clear, colourless.
Odour.....	Pungent odour. Fruity odour.
Odour threshold (ppm).....	50 ppm.
pH.....	7.
Melting / Freezing point (deg C).....	-94°C (-137°F).
Initial boiling point / boiling range (deg C).....	56°C.
Flash point (deg C), method.....	-18°C (0°F) Closed Cup.
Evaporation rate.....	11.6.
Flammability (solids and gases).....	Flammable liquid.
Upper flammable limit (% vol).....	12.6.
Lower flammable limit (% vol).....	2.6.
Vapour pressure (mm Hg).....	>181 mm Hg @ 20C.
Vapour density (air=1).....	2.0.
Relative Density (Specific Gravity).....	0.792.
Pounds / USG.....	6.61. lbs/USG.
Solubility.....	In Water;. Complete.
Coefficient of water/oil distribution.....	Not available.
Auto ignition temperature (deg C).....	465°C (869°F).
Decomposition temperature.....	Not available.
Viscosity.....	Dynamic:. 0.32 mPas @ 20C.
% Volatile by volume.....	100.
VOC.....	Exempt.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Product is stable; hazardous polymerization will not occur. Avoid heat, sparks and flames.
Chemical stability.....	Stable at normal temperatures and pressures.
Possibility of hazardous reactions.....	Hazardous polymerization will not occur.
Conditions to avoid, including static discharge, shock or vibration.....	Keep away from heat. Incompatible with strong oxidizers.
Incompatible materials.....	Acetone may ignite or react violently with strong oxidizing agents, such as chromic acid, chromium trioxide, chromyl chloride, hot nitric acid, potassium permanganate (in an alkaline medium), or peroxides. Strong acids. Strong bases. Strong oxidizers. Aldehydes. Ammonia. Peroxides. Reducing agents. Acetone reacts violently with chlorinated hydrocarbons such as chloroform in the presence of a strong base. Acetone is not corrosive to metals but degrades many plastics including nitrile rubber, polyvinyl chloride, polyvinyl alcohol, Viton ®, and acrylic resins and cellulose derivatives for which acetone is used.
Hazardous decomposition products.....	By fire:. Oxides of carbon (CO,CO2). Dense black smoke. Thermal decomposition: carbon monoxide, carbon dioxide. The pyrolysis of acetone leads to the formation of ketene, a highly reactive and unstable compound.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Acetone	50,100 mg/m3 8 hours rat inhalation	5,800 mg/kg rat oral
Acute Toxicity Estimate.....	ATE mix (oral): . 5800 mg/kg. ATE mix (dermal):. 15715 mg/kg.	

PRODUCT: PF602-1 ACETONE**SECTION 11: TOXICOLOGICAL INFORMATION**

Route of exposure.....	Eye contact. Skin contact. Inhalation.
Symptoms related to the physical, chemical and toxicological characteristics	
Effects of acute exposure.....	Excessive vapours may cause nasal and respiratory tract irritation. Inhalation of higher concentration may result in central nervous system depression and unconsciousness. Causes eye irritation. Can cause tearing, reddening and swelling. May cause temporary corneal damage. May cause drying or flaking of the skin. Ingestion may cause adverse health effects.
Effects of chronic exposure.....	Breathing high concentrations of vapour may cause anesthetic effects and serious health effects. Prolonged or repeated skin contact may cause drying or cracking of skin. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.
Carcinogenicity of material.....	ACGIH Evaluation: Non-classifiable substance as carcinogenic to humans (group A4).
Reproductive effects.....	No data on reproductive effects were found in the literature sources consulted.
Mutagenicity.....	The data does not allow for an adequate assessment of the mutagenic effect.
Sensitizing capability of material.....	Despite widespread use, no case of skin sensitization has been found in the literature. No information regarding respiratory sensitization was found in the literature sources consulted.
Specific Target Organ Toxicity	May cause drowsiness or dizziness. May cause respiratory irritation.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity.....	LC50 (Oncorhynchus mykiss):. 4.74 - 6.33 mL/L.
Persistence and degradability.....	No product data.
Bioaccumulative potential.....	No product data.
Mobility in soil.....	Partition coefficient: -0.24.
Other adverse effects.....	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.
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SECTION 14: TRANSPORT INFORMATION

TDG Classification.....	UN1090 - ACETONE - Class 3 - PG II - this product meets the criteria for Limited Quantity Exemptions when packaged in containers less than 1 Litre.
DOT Classification (Road).....	UN1090 - ACETONE - Class 3 - PGII - Ltd Qty (1 Liter/0.26 Gallons). Refer to 49CFR 172.101 for additional non-bulk packaging requirements.
IATA Classification (Air).....	UN1090 - ACETONE - Class 3 - PG II. Limited Quantity. Do not ship by air without checking appropriate IATA regulations.
IMDG Classification (Marine).....	UN1090 - ACETONE - Class 3 - PG II. 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	None.
Section 311/312 - hazard categories.....	Immediate health, delayed health, fire hazard.
Section 313.....	None.
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. 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.

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SECTION 16: OTHER INFORMATION

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