



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

PRODUCT: PF 648C ACTIVATOR FOR PF 647C 2K QUICK DRY PRIMER 2.1 VOC

SECTION 01: IDENTIFICATION

Product identifier..... PF 648C ACTIVATOR FOR PF 647C 2K QUICK DRY PRIMER 2.1 VOC
Initial supplier identifier..... Pro Form Products Ltd.
604 McGeachie Drive
Milton, Ontario L9T3Y5
Tel (905) 878-4990 Fax (905) 878-1189
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 **.
Recommended use and restrictions on .. Paint reducer.
use
Chemical family..... Mixture.
Hazard rating
NFPA rating..... Health: 3 Fire: 3 Reactivity: 0.
HMIS..... H: 3 F: 3 R: 0.

SECTION 02: HAZARD IDENTIFICATION



Signal Word..... DANGER.
Hazard Classification..... Flammable Liquid 2. Specific Target Organ Toxicity — Single Exposure — Category 3.
Acute Toxicity 4. Eye Irritant 2. Skin Irritation — Category 2. Skin Sensitizer — Category 1. Skin Corrosion 1B.
Hazard Description..... H225 Highly flammable liquid and vapour. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.
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. P233 Keep container tightly closed. P235 Keep cool. 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. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves and eye protection.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
KETAMINE RESIN	PROPRIETARY	15-40
Acetone	67-64-1	25-35
Methyl Isobutyl Ketone	108-10-1	10-20
Xylene	1330-20-7	5-10
Butyl Alcohol	71-36-3	1-5
Ethylbenzene	100-41-4	1-5

PRODUCT: PF 648C ACTIVATOR FOR PF 647C 2K QUICK DRY PRIMER 2.1 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.....	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.
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. In cases of larger fires, water spray should be used.
Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products	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. 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

Leak/spill.....	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. 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%).
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SECTION 07: HANDLING AND STORAGE

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 and reducing materials. Store away from sunlight.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
KETAMINE RESIN	No data No data	No data	No data	No data	No data	No data
Acetone	250 ppm TLV CA ON AB: 500ppm (TWA); 750ppm (STEL)	500 ppm	1,000 ppm	Not established	250 ppm	
Methyl Isobutyl Ketone	50 ppm	75 ppm	100 ppm	Not established	50 ppm / STEL 75 ppm	
Xylene	ON: 20 ppm (TWA), 75 ppm (STEL) 50 ppm CA ON: 100ppm (TWA); 150ppm (STEL)	150 ppm	100 ppm TWA	Not established	Not established	Not established
Butyl Alcohol	20 ppm CA ON: 20 ppm (TWA)	Not established	100 ppm	Not established	50 ppm skin	

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INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
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Ethylbenzene	100 ppm	125 ppm	100 ppm	Not established	100 ppm / STEL 125 ppm	
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CA ON: 20ppm (TWA)

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.
 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.
 Exposure limits

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state..... Liquid.
 Colour..... Clear, colourless.
 Odour..... Solvent odour.
 Odour threshold (ppm)..... Not available.
 Vapour pressure (mm Hg)..... Not available.
 Vapour density (air=1)..... >1.
 pH..... Not applicable.
 Relative Density (Specific Gravity)..... 7.18 lb/usg - 0.8616.
 Melting / Freezing point (deg C)..... Not available.
 Solubility..... Partially in water.
 Initial boiling point / boiling range (deg C). 98°C .
 Evaporation rate..... Not available.
 Flash point (deg C), method..... -18°C (0°F) Closed Cup.
 Auto ignition temperature (deg C)..... >460°C.
 Upper flammable limit (% vol)..... 12.6.
 Lower flammable limit (% vol)..... 1.1.
 Partition coefficient — n-octanol/water..... Not available.
 % Volatile by volume..... 75%.
 VOC (less water)..... 269.61 g/l = 2.25 lb/usg.

SECTION 10: STABILITY AND REACTIVITY

Chemical stability..... Stable at normal temperatures and pressures.
 Reactivity Avoid heat, sparks and flames. Explosive reactions can occur in the presence of strong oxidizing agents.
 Conditions to avoid, including static Keep away from heat. Incompatible with strong oxidizers.
 discharge, shock or vibration
 Hazardous decomposition products..... Dense black smoke. Oxides of carbon (CO,CO2).
 Possibility of hazardous reactions..... Hazardous polymerization will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
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KETAMINE RESIN	No data	No data
Acetone	50,100 mg/m3 8 hours, rat	5,800 mg/kg (rat oral)
Methyl Isobutyl Ketone	8.2 - 16.4 mg/L 4 hours rat	2080 mg/kg (rat oral) >16,000 mg/kg (rabbit dermal)
Xylene	6350 ppm 4 hours rat	>3523 mg/kg rat oral
Butyl Alcohol	8,000 ppm 4 hours	790 mg/kg rat oral 3,400 mg/kg rabbit dermal
Ethylbenzene	No data	3,500 mg/kg rat oral 17,800 mg/kg rabbit dermal

Route of exposure..... Eye contact. Skin contact. Inhalation.

PRODUCT: PF 648C ACTIVATOR FOR PF 647C 2K QUICK DRY PRIMER 2.1 VOC**SECTION 11: TOXICOLOGICAL INFORMATION**

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.
Skin contact.....	Corrosive. May cause sensitization by skin contact. Can cause chemical burns. Can cause moderate irritation, defatting and dermatitis.
Skin absorption.....	May be harmful if absorbed through the skin.
Eye contact.....	Can cause burns. Can cause redness, irritation, tissue destruction.
Inhalation (acute).....	Excessive inhalation of vapours can cause respiratory irritation, dizziness, headache, vomiting and unconsciousness.
Inhalation (chronic).....	Chronic exposure to organic solvent vapors have been associated with various neurotoxic effects including permanent brain and/or nervous system damage, kidney, liver, blood damage and reproductive effects among women. Symptoms may include nausea, vomiting, abdominal pain, headache, impaired memory, loss of coordination, insomnia and breathing difficulties.
Ingestion.....	May be harmful or fatal if swallowed. Aspiration of material into lungs can cause chemical pneumonitis which can be fatal.
Carcinogenicity of material.....	Ethylbenzene is classified as an A3 known animal carcinogen. Methyl Isobutyl Ketone is possibly carcinogenic to humans (IARC Group 2B).
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.

Toxicological Data

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	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 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.

SECTION 15: REGULATORY INFORMATION

WHMIS 1988 classification.....	B2, D2A, D2B, E.
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 substances	None.
Section 311/312 - hazard categories	Immediate health, delayed health, fire hazard.
Section 313.....	Butyl alcohol. Ethylbenzene. Xylene. Methyl Isobutyl Ketone.
EPA hazardous air pollutants (HAPS) 40CFR63	Ethylbenzene. Methyl Isobutyl Ketone. Xylene.
TSCA inventory status.....	All components are listed.
California Proposition 65.....	This product contains Ethylbenzene that is known to the State of California to cause cancer. This product contains Methyl Isobutyl Ketone (MIBK) known to the State of California to cause cancer and reproductive effects.

SECTION 16: OTHER INFORMATION

Prepared by:	REGULATORY AFFAIRS.
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

PRODUCT: PF 648C ACTIVATOR FOR PF 647C 2K QUICK DRY PRIMER 2.1 VOC**SECTION 16: OTHER INFORMATION**

Disclaimer:..... 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 .. 2016-01-19
data sheet