



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

PRODUCT: PF 641-2C SUPER EXPRESS CLEAR ACTIVATOR FOR PF640-2C

SECTION 01: IDENTIFICATION

Product identifier..... PF 641-2C SUPER EXPRESS CLEAR ACTIVATOR FOR PF640-2C
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 .. Paints. Accelerator and activator.
use
Chemical family..... Mixture.
Hazard rating
NFPA rating..... Health: 2 Fire: 3 Reactivity: 0.
HMIS..... H: 2 F: 3 R: 0.

SECTION 02: HAZARD IDENTIFICATION



Signal Word..... DANGER.
Hazard Classification..... Flammable Liquid 2. Skin Sensitizer — Category 1.
Hazard Description..... H225 Highly flammable liquid and vapour. H317 May cause an allergic skin reaction.
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. P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves and eye protection.
Response P302 + P352 - If on skin: wash with plenty of water. P303 + P361 + P353 If on skin or in
hair: take off all contaminated clothing immediately. Rinse thoroughly with water and use
safety shower . P333 + P313 If skin irritation or rash occurs, get medical advice/attention.
P321 - For specific treatment see section 4 on this SDS. P362 + P364 - Take off
contaminated clothing and wash before reuse. P370 + P378 In case of fire - use dry
chemical powder, CO2 or foam to extinguish.
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. %
Homopolymer of HDI	28182-81-2	65-75
tert-Butyl acetate	540-88-5	10-20
n-Butyl Acetate	123-86-4	10-20

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.

PRODUCT: PF 641-2C SUPER EXPRESS CLEAR ACTIVATOR FOR PF640-2C**SECTION 04: FIRST-AID MEASURES**

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, CO₂, dry chemical. During a fire, isocyanate vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Use cold water spray to cool exposed containers to minimize risk of rupture.

Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products Oxides of carbon (CO, CO₂). Thermal decomposition may release isocyanate vapors. Hydrogen cyanide. Oxides of nitrogen.

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.

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%).

Minor spills..... Absorb isocyanates with sawdust or other absorbent. Decontamination Solution: Mixture of water (80%) with non-ionic surfactant Tergitol TMN-10 (20%), or; water (90%), concentrated ammonia (3-8%) and detergent (2%). Add about 10 parts of decontamination solution per part of isocyanate. Allow to stand in the open air for 7 to 14 days prior to disposal.

Clean up..... Decontaminate floor with decontamination solution, letting stand for at least 15 minutes.

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
Homopolymer of HDI	5 mg/m ³ Supplier: 0.5 mg/m ³ (TWA)	Not established	5 mg/m ³	Not established	5 mg/m ³	
tert-Butyl acetate	200 ppm CA ON: 50ppm (TWA), 150ppm (STEL)	Not established	200 ppm	Not established	200 ppm	
n-Butyl Acetate	50 ppm CA ON: 50ppm (TWA), 150ppm (STEL)	150 ppm	150 ppm	200 ppm	150 ppm / STEL 200 ppm	
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.					

PRODUCT: PF 641-2C SUPER EXPRESS CLEAR ACTIVATOR FOR PF640-2C**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

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.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state..... Liquid.
 Colour..... Light yellow.
 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)..... 1.036.
 Melting / Freezing point (deg C)..... Not available.
 Solubility..... Slightly soluble in water.
 Initial boiling point / boiling range (deg C). > 100° C.
 Evaporation rate..... Moderate.
 Flash point (deg C), method..... 22°C (72°F) Closed Cup. (Closed Cup).
 Auto ignition temperature (deg C)..... Not available.
 Upper flammable limit (% vol)..... 7.5.
 Lower flammable limit (% vol)..... 0.9.
 Decomposition temperature..... Not available.
 Partition coefficient — n-octanol/water..... Not available.
 VOC (less water)..... 235.9 g/L - 1.97 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. Contact with moisture and other materials will react with isocyanates.
 Conditions to avoid, including static Keep away from heat. Incompatible with strong oxidizers. Copper. Water, amines, strong discharge, shock or vibration bases, alcohols.
 Hazardous decomposition products..... By fire: Isocyanates. Dense black smoke. Oxides of nitrogen. Oxides of carbon (CO,CO2).
 Possibility of hazardous reactions..... Contact with moisture or other materials that react with isocyanates may cause polymerization.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Homopolymer of HDI	390-453 mg/m3 rat 4 hours	> 5,000 mg/kg (rat, oral); > 5,000 mg/kg (rabbit, dermal)
tert-Butyl acetate	>2,230 mg/m3 4 hours rat	4,100 mg/kg (rat, oral); >2,000 mg/kg (rabbit, dermal)
n-Butyl Acetate	>33 mg/L vapour, (rat) dust/mist	5.2 mg/L 10760 mg/kg (rat, oral) 14112 mg/kg (rabbit, dermal)
Route of exposure.....	Eye contact. Skin contact. Inhalation.	
Effects of acute exposure.....	May cause an allergic skin reaction.	
Effects of chronic exposure.....	Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal. Prolonged or repeated exposure may result in skin sensitization.	
Sensitizing capability of material.....	Isocyanates are known to cause skin and respiratory sensitization in humans. Animal tests have indicated that respiratory sensitization can result from skin contact with diisocyanates.	
Carcinogenicity of material.....	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.	
Reproductive effects.....	No known reproductive effects.	

SECTION 12: ECOLOGICAL INFORMATION

Environmental..... Do not allow to enter waters, waste water or soil.
 Persistence and degradability..... Not available.

PRODUCT: PF 641-2C SUPER EXPRESS CLEAR ACTIVATOR FOR PF640-2C**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. This material and its container must be disposed of as hazardous waste. Avoid release to the environment.

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.
 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 None.
 substances
 Section 311/312 - hazard categories..... Immediate health, delayed health, fire hazard.
 Section 313..... N-Butyl Acetate. Tert-butyl acetate.
 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.

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 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