



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

**PRODUCT: 13324 30 MINUTE DTM 2K URETHANE PRIMER ACTIVATOR**

### SECTION 01: IDENTIFICATION

Product identifier..... 13324 30 MINUTE DTM 2K URETHANE PRIMER ACTIVATOR  
 Other means of identification  
 Chemical family..... Mixture.  
 Recommended use and restrictions on .. Paints.  
 use  
 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 \*\*.  
 -  
 NFPA rating..... Health: 2 Fire: 4 Reactivity: 0.  
 HMIS..... H: 2 F: 4 R: 0.

### SECTION 02: HAZARD IDENTIFICATION



Hazard Classification..... Flammable Liquid 2. Skin Irritation — Category 2. Skin Sensitizer — Category 1. Eye Irritation — Category 2A. Acute Toxicity (Inhalation) — Category 4. Specific Target Organ Toxicity — Single Exposure — Category 3. (respiratory system). (narcotic effects).  
 Signal Word..... DANGER.  
 Hazard Description..... H225 Highly flammable liquid and vapour. 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..... 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. P272 Contaminated work clothing should not be allowed out of the workplace. 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 . 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. 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. % |
|--|------------|-------|
| 4-Chlorobenzotrifluoride               | 98-56-6    | 30-60 |
| Hexane, 1,6-diisocyanato-, homopolymer | 28182-81-2 | 15-40 |
| Acetic acid, methyl ester              | 79-20-9    | 10-30 |

**PRODUCT: 13324 30 MINUTE DTM 2K URETHANE PRIMER ACTIVATOR****SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

|   |            |     |
|---|------------|-----|
| n-Butyl Acetate   | 123-86-4   | 1-7 |
| Light aromatic naphtha*   | 64742-95-6 | 1-5 |
| *Light aromatic naphtha (64742-95-6) contains:<br>1,2,4-trimethylbenzene (<32%), Cumene (<1.1%), and xylene (<2.2%)<br><<The actual concentration(s) withheld as a trade secret>> |            |     |

**SECTION 04: FIRST-AID MEASURES**

|  |   |
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| 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.   |
| 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. Wash clothing before reuse.  |
| Eye contact.....   | In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Check for and remove any contact lenses, if safe and easy to do so. Get medical attention immediately.  |
| Most important symptoms and effects, .....<br>whether acute or delayed | Harmful if swallowed, in contact with skin or if inhaled. High vapour concentrations may be irritating to the respiratory tract. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Causes skin irritation. Can cause skin sensitization. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. |
| 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. An individual having a skin or pulmonary sensitization reaction to this material should be removed from exposure to any isocyanate.  |

**SECTION 05: FIRE-FIGHTING MEASURES**

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| Suitable and unsuitable extinguishing media  | "Alcohol" foam, CO <sub>2</sub> , dry chemical. 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 | The vapour is heavier than air, spreads along the ground and distant ignition is possible. Thermal decomposition products are toxic. May include: Oxides of carbon (CO, CO <sub>2</sub> ). Hydrogen cyanide. Isocyanates. Isocyanic acid. Nitrogen oxides. 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. Keep run-off water from entering sewers and other waterways. Dike for water control. |

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

|   |  |
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| Personal precautions, protective equipment and emergency procedures | No action shall be taken involving any personal risk or without suitable training. Take precautions against static discharge. Use non-sparking tools and equipment to pick up the spilled material. 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.   |
| Methods and materials for containment and cleaning up               | Ventilate. Eliminate all sources of ignition. Dike area to contain the spill, prevent runoff from going into drains, absorb residual material with an inert absorbent, shovel or pump to a properly labelled container and dispose of as a hazardous waste. Use an aqueous solution of ammonia or other suitable isocyanate neutralizing solution to clean up any unreacted prepolymer residue. Do not use neutralizing solution on large spills as heat may be generated. Use a Swype test kit to test for residual isocyanates. If temporary control of isocyanate vapour is required, a blanket of protein foam may be placed over spill. |

**PRODUCT: 13324 30 MINUTE DTM 2K URETHANE PRIMER ACTIVATOR****SECTION 07: HANDLING AND STORAGE**

|  |  |
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| Precautions for safe handling.....                           | Keep away from heat, sparks, and open flame. Ensure that equipment is properly bonded and grounded during filling and transferring as product may become electrostatically charged. Avoid all skin contact. Handle with care. Avoid breathing vapours or mist. Ventilate adequately, otherwise wear an appropriate breathing apparatus. Employees should wash hands and face before eating or drinking. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed vapour or spray mist. |
| 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 incompatible materials. Keep away from acids and alkalis. Store away from strong oxidizers. Do not store above 35 deg c.  |

**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

| INGREDIENTS                                  | TWA  | ACGIH TLV<br>STEL | PEL                      | OSHA PEL<br>STEL | REL NIOSH              |
|--|--|-------------------|--------------------------|------------------|------------------------|
| 4-Chlorobenzotrifluoride                     | Not established  | Not established   | Not established          | Not established  | Not established        |
| Hexane,<br>1,6-diisocyanato-,<br>homopolymer | Not Established  | Not Established   | Not Established          | Not Established  | Not Established        |
|  | Supplier OEL: 0.5mg/m3 (TWA)   |                   |                          |                  |                        |
| Acetic acid, methyl ester                    | 200 ppm  | Not established   | 200 ppm                  | Not established  | Not established        |
|  | CA ON: 200ppm (TWA), 250ppm (STEV-C)   |                   |                          |                  |                        |
| n-Butyl Acetate                              | 50 ppm   | 150 ppm           | 150 ppm                  | 200 ppm          | 150 ppm / STEL 200 ppm |
|  | CA ON: 50ppm (TWA), 150ppm (STEL)  |                   |                          |                  |                        |
| Light aromatic naphtha*                      | Not established  | Not established   | 500 ppm (2000 mg/m3) TWA | Not established  | 350 mg/m3 TWA          |
| 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                |  |                   |                          |                  |                        |
| Eye/type.....                                | 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. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Contact glove supplier for recommendations.   |                   |                          |                  |                        |
| Clothing/type.....                           | Wear adequate protective clothes.  |                   |                          |                  |                        |
| Footwear/type.....                           | Safety boots per local regulations.  |                   |                          |                  |                        |
| Respiratory/type.....                        | Whenever concentrations of isocyanates exceed the exposure limit or are not known, respiratory protection must be worn.  |                   |                          |                  |                        |
| 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.  |                   |                          |                  |                        |
| Medical surveillance.....                    | Medical supervision of all employees who handle or come in contact with isocyanates is recommended. These should include preemployment and periodic medical examinations with pulmonary function test (FEC, FVC as a minimum). Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurring skin eczema or sensitization should be excluded from working with isocyanates. Once a person is diagnosed as sensitized to an isocyanate, no further exposure can be permitted. |                   |                          |                  |                        |

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

|  |   |
|--|---|
| Appearance/Physical state.....                 | Liquid.   |
| Colour.....                                    | Light yellow.                                       |
| Odour.....                                     | Characteristic odour.                               |
| Odour threshold (ppm).....                     | Not available.                                      |
| pH.....  | Not available.                                      |
| Melting / Freezing point (deg C).....          | Not available.                                      |
| Initial boiling point / boiling range (deg C). | >55 °C.   |
| Flash point (deg C), method.....               | -15.6°C. (estimate; lowest flash point ingredient). |
| Evaporation rate.....                          | Not available.                                      |
| Flammability (solids and gases).....           | Not applicable. Flammable liquid.                   |
| Upper flammable limit (% vol).....             | 16.0.   |

**PRODUCT: 13324 30 MINUTE DTM 2K URETHANE PRIMER ACTIVATOR****SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

|  |                          |
|--|--------------------------|
| Lower flammable limit (% vol).....           | 0.9.                     |
| Vapour pressure (mm Hg).....                 | < . 180 mm Hg.           |
| Vapour density (air=1).....                  | >1.                      |
| Relative Density (Specific Gravity).....     | 1.148.                   |
| Pounds / USG.....                            | 9.58.                    |
| Solubility.....                              | Negligible.              |
| Partition coefficient — n-octanol/water..... | Not available.           |
| Auto ignition temperature (deg C).....       | Not available.           |
| Decomposition temperature.....               | Not available.           |
| Viscosity.....                               | 14 sec Zahn #2.          |
| % Volatile by volume.....                    | 11.81.                   |
| VOC (less water).....                        | 1.83 lb/USG; 219.28 g/L. |

**SECTION 10: STABILITY AND REACTIVITY**

|   |  |
|---|--|
| Reactivity .....  | This is a stable material. Contact with moisture, other materials that react with isocyanates, or temperatures above 177 C, may cause polymerization.  |
| Chemical stability.....   | Stable at normal temperatures and pressures.   |
| Possibility of hazardous reactions.....                                   | Contact with moisture, other materials that react with isocyanates, or temperatures above 177C, may cause polymerization.  |
| Conditions to avoid, including static discharge, shock or vibration ..... | Avoid heat, spark, open flames. Electrostatic charge.  |
| Incompatible materials.....   | Strong oxidizing agents. Water, amines, strong bases, alcohols. Copper alloys.   |
| Hazardous decomposition products.....                                     | No hazardous decomposition products when stored and handled correctly. Hazardous decomposition products depend on temperature, air supply, and the presence of other materials. See hazardous combustion products section 5. |

**SECTION 11: TOXICOLOGICAL INFORMATION**

| INGREDIENTS  | LC50   | LD50  |
|--|--|---|
| 4-Chlorobenzotrifluoride   | 4479 ppm   | >6,800 mg/kg (rat oral);<br>>2,700 mg/kg (rabbit dermal)            |
| Hexane, 1,6-diisocyanato-, homopolymer                                       | 4.63 mg/L rat 4 hours  | >5,000 mg/kg oral rat >5,000 mg/kg dermal rabbit                    |
| Acetic acid, methyl ester  | 16000 ppm ( Rat ) 4 h  | LD50 5001 mg/kg (oral rat)<br>LD50 5001 mg/kg (dermal rabbit)       |
| n-Butyl Acetate  | >33 mg/L vapour, (rat) dust/mist   | 5.2 mg/L<br>10760 mg/kg (rat, oral)<br>14112 mg/kg (rabbit, dermal) |
| Light aromatic naphtha*  | 10.2 mg/L (inhal, hr.)   | >3400 mg/kg (oral, rat). >2000 mg/kg (dermal, rabbit)               |
| Route of exposure.....   | Eye contact. Skin contact. Inhalation.   |   |
| Symptoms related to the physical, chemical and toxicological characteristics |  |   |
| Effects of acute exposure.....   | May cause skin irritation. May cause sensitization by skin contact. Causes serious eye irritation. Inhalation of vapours or mist may cause drowsiness or dizziness. Causes respiratory tract irritation.   |   |
| Effects of chronic exposure.....   | May aggravate pre-existing skin and eye disorders. Prolonged or repeated exposure may result in an allergic respiratory reaction in sensitive individuals. 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.                              |   |
| Sensitizing capability of material.....                                      | Repeated contact may cause allergic skin and/or respiratory reactions resulting in sensitization of the individual. Respiratory sensitivity results in asthma-like symptoms on subsequent exposure. 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.....   | No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC or ACGIH.   |   |
| Reproductive effects.....  | No component of this product present at levels greater than or equal to 0.1% .   |   |
| Specific Target Organ Toxicity .....   | May cause drowsiness or dizziness. May cause respiratory irritation.   |   |

**PRODUCT: 13324 30 MINUTE DTM 2K URETHANE PRIMER ACTIVATOR****SECTION 12: ECOLOGICAL INFORMATION**

|                                    |  |
|------------------------------------|--|
| Ecotoxicity.....                   | Product data not available.                        |
| Persistence and degradability..... | Product data not available.                        |
| Bioaccumulative potential.....     | Product data not available.                        |
| Mobility in soil.....              | Product data not available.                        |
| Other adverse effects.....         | Do not allow to enter waters, waste water or soil. |

**SECTION 13: DISPOSAL CONSIDERATIONS**

Information on safe handling for disposal and methods of disposal, including any contaminated packaging . Dispose of waste in accordance with all applicable Federal, Provincial/State and local regulations. Empty containers must be handled with care due to product residue.

**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. |
| DOT Classification (Road).....    | UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - Ltd Qty (1 litre). Refer to 49CRF 172.101 for additional non-bulk packaging requirements.         |
| IATA Classification (Air).....    | UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II. Limited Quantity. Do not ship by air without checking appropriate IATA regulations.                |
| IMDG Classification (Marine)..... | UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - EmS: F-E S-E. 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.....                             | On Domestic Substances List (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 substances | None.   |
| Section 311/312 - hazard categories.....     | Immediate health, delayed health, fire hazard.  |
| Section 313.....                             | None above De minimus % limit.  |
| EPA hazardous air pollutants (HAPS) 40CFR63  | Hexamethylene diisocyanate. 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 cancer . (Cumene). (Ethyl benzene). For more information, go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> . |

**SECTION 16: OTHER INFORMATION**

|  |   |
|--|---|
| Prepared by: .....                                   | REGULATORY AFFAIRS. Trivalent Data Systems Ltd. <a href="http://www.trivalent.com">www.trivalent.com</a> .  |
| 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 data sheet | 2020-12-14  |