



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

**PRODUCT: 13068 2K URETHANE PRIMER SURFACER ACTIVATOR**

### SECTION 01: IDENTIFICATION

Product identifier..... 13068 2K URETHANE PRIMER SURFACER ACTIVATOR  
 Other means of identification  
 Chemical family..... Mixture.  
 Recommended use and restrictions on .. Accelerator and activator.  
 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. Aspiration Toxicity 1. Skin Irritation — Category 2. Skin Sensitizer — Category 1. Eye Irritation — Category 2A. Specific Target Organ Toxicity — Single Exposure — Category 3. (respiratory system). (narcotic effects). Reproductive Toxicity — Category 2. Specific Target Organ Toxicity — Repeated Exposure — Category 2.  
 Signal Word..... DANGER.  
 Hazard Description..... H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure.  
 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. 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. P260 Do not breathe mist, vapours, or spray. 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 . P301 + P310 If swallowed IMMEDIATELY CALL A POISON CONTROL CENTRE and follow instructions provided by the centre. P331 Do NOT induce vomiting. 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. P308 + P313 If exposed or concerned, get medical advice/attention. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing.  
 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.

**PRODUCT: 13068 2K URETHANE PRIMER SURFACER ACTIVATOR****SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Toluene	108-88-3	15-40
Homopolymer of HDI	28182-81-2	15-40
n-Butyl Acetate	123-86-4	10-30
Ethyl Acetate	141-78-6	7-13

&lt;&lt;The actual concentration(s) withheld as a trade secret&gt;&gt;

**SECTION 04: FIRST-AID MEASURES**

Inhalation.....	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention.
Ingestion.....	Rinse mouth with water. 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. The main hazard from ingestion is aspiration of the liquid into the lungs.
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. Consult a physician if irritation continues.
Most important symptoms and effects, ..... whether acute or delayed	Harmful if swallowed, in contact with skin or if inhaled. The main hazard from ingestion is aspiration of the liquid into the lungs producing chemical pneumonitis. Causes severe skin and eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Can cause skin sensitization. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Can irritate mucous membranes of the respiratory tract. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.
Immediate medical attention and special treatment needed, if necessary	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	Dry chemical. Carbon dioxide. Foam. In cases of larger fires, water spray should be used. Do not use water in a jet.
Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products	Flammable liquid. This material is a static accumulator. Take precautionary measures against electrostatic loading. 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> ). Oxides of nitrogen. Hydrogen cyanide. Isocyanates. Dense black smoke. Other potentially toxic fumes.
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. Keep away from heat, sparks and flame.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

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. Equipment should be grounded. 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	If temporary control of isocyanate vapour is required, a blanket of protein foam may be placed over spill. 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. Ventilate. Eliminate all sources of ignition. Use non-sparking tools.
Leak/spill.....	FLAMMABLE. Keep away from heat, sparks and flames. Use non-sparking tools and equipment to pick up the spilled material. Always adopt precautionary measures against build-up of static which may arise from appliances, handling and the containers in which

**PRODUCT: 13068 2K URETHANE PRIMER SURFACER ACTIVATOR****SECTION 06: ACCIDENTAL RELEASE MEASURES**

Leak/spill.....	product is packed. 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.
Major spills.....	If temporary control of isocyanate vapour is required, a blanket of protein foam may be placed over spill. If transportation spill occurs in United States, call Chemtrec 1-800-424-9300. If transportation spill occurs in Canada, call Canutec at (613) 996-6666. Large quantities may be pumped into closed, but not sealed, containers for disposal.
Clean up.....	Decontaminate spill area with decontamination solution. Area can then be washed with soap and water.

**SECTION 07: HANDLING AND STORAGE**

Precautions for safe handling.....	Keep away from heat, sparks, and open flame. This material is a static accumulator. Prevent accumulation of electrostatic charges. 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. Use non sparking tools. Avoid skin and eye contact. Ventilate adequately, otherwise wear an appropriate breathing apparatus. Wear respiratory protection if material is heated, sprayed, used in confined space, or if exposure limit is exceeded. Exposure to vapours of heated isocyanates can be extremely dangerous. Handle away from acids and oxidizers. Keep container closed when not in use. 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 in tightly closed containers to prevent moisture contamination. Unsuitable materials and coatings: Polystyrene, Natural rubber, Butyl rubber, EPDM.

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

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Toluene	20 ppm	Not established	200 ppm	500 ppm 10 minutes	100 ppm / STEL 150 ppm	
	CA ON: TWA: 20 ppm					
Homopolymer of HDI	5 mg/m3	Not established	5 mg/m3	Not established	5 mg/m3	
	Supplier: 0.5 mg/m3 (TWA)					
n-Butyl Acetate	50 ppm	150 ppm	150 ppm	200 ppm	150 ppm / STEL 200 ppm	
	CA ON: 50ppm (TWA), 150ppm (STEL)					
Ethyl Acetate	400 ppm	Not established	400 ppm	Not established	400 ppm	
	CA ON: 400 ppm (TWA)					
Appropriate engineering controls.....	Ventilate adequately. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination. Vent work area to ensure airborne concentrations are below the current occupational exposure limits. Avoid breathing mists; if general ventilation or local exhaust is inadequate, persons exposed to mists should wear approved breathing devices. Explosion-proof exhaust ventilation.					
Personal Protective Equipment						
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. Practice good hygiene, wash thoroughly before handling any food.					
Eye/type.....	Chemical safety goggles and full faceshield if a splash hazard exists.					
Respiratory/type.....	Use NIOSH approved respirator or equipment. Do not exceed the use limits of the respirator. Whenever concentrations of isocyanates exceed the exposure limit or are not known, respiratory protection must be worn. The use of a positive pressure air supplied respirator is mandatory when airborne concentrations are not known or airborne solvent levels are 10 times the appropriate exposure limit or spraying is performed in a confined space or with limited ventilation.					
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.					

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Medical surveillance.....	Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent 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.
Monitoring.....	Exposure levels must be monitored by accepted monitoring techniques to ensure that the TLV is not exceeded.

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Physical state.....	Liquid.
Colour.....	Clear to pale yellow.
Odour.....	Aromatic. Sweet odour.
Odour threshold (ppm).....	Not available.
pH.....	Not available.
Melting / Freezing point (deg C).....	< 0 °C.
Initial boiling point / boiling range (deg C).....	Not available.
Flash point (deg C), method.....	-4.0 °C. (estimate; lowest flash point ingredient).
Evaporation rate.....	Not available.
Flammability (solids and gases).....	Not applicable. Flammable liquid.
Upper flammable limit (% vol).....	12.8.
Lower flammable limit (% vol).....	1.3.
Vapour pressure (mm Hg).....	< 74 mmHg.
Vapour density (air=1).....	Not available.
Relative Density (Specific Gravity).....	0.951.
Pounds / USG.....	7.94.
Solubility.....	Reacts slowly with water to liberate CO2 gas.
Partition coefficient — n-octanol/water.....	Not available.
Auto ignition temperature (deg C).....	Not available.
Decomposition temperature.....	Not available.
Viscosity.....	Not available.
% Volatile by volume.....	0.0.
VOC (less water).....	5.32 lbs/USG; 637.5 g/L.

**SECTION 10: STABILITY AND REACTIVITY**

Reactivity .....	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 .....	Keep away from heat. Electrostatic charge.
Incompatible materials.....	Water, Amines, Strong bases, Alcohols, Copper alloys. Strong oxidizing agents. Perchloric acid. Chromium trioxide. Alumina. Silica gel. Avoid natural, butyl, and neoprene rubbers.
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. Avoid temperatures above 177c, the onset of polymer decomposition. See hazardous combustion products section 5.

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
Toluene	8000ppm (rat inhalation) 400ppm mouse (inhalation 24hr)	5,000 mg/kg (rat oral); 12,124 mg/kg (rabbit dermal )
Homopolymer of HDI	390-453 mg/m3 rat 4 hours	> 5,000 mg/kg (rat, oral); > 5,000 mg/kg (rabbit, dermal)
n-Butyl Acetate	>33 mg/L vapour, 5.2 mg/L (rat) dust/mist	10760 mg/kg (rat, oral) 14112 mg/kg (rabbit, dermal)
Ethyl Acetate	16,000 ppm 6 hours rat	5,600 mg/kg (rat oral )
Route of exposure.....	Eye contact. Skin contact. Inhalation. Skin absorption.	
Symptoms related to the physical, chemical and toxicological characteristics		

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Effects of acute exposure.....	Hazardous in contact with skin, by ingestion, and by inhalation. Irritating to eyes, skin and respiratory system. May be harmful if absorbed through the skin. Can result in irritation in the digestive tract. Aspiration of liquid into lungs can cause chemical pneumonitis. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea. Breathing of high vapour concentrations may cause anesthetic effects and serious health effects.
Effects of chronic exposure.....	Reports have associated repeated or prolonged overexposure to solvents with permanent brain and nervous system damage. Prolonged vapour contact may cause conjunctivitis. Prolonged or repeated exposure may cause lung damage, including a decrease in lung function. As a result of previous repeated overexposure or a single large dose, certain individuals develop sensitization which will cause them to react to a later exposure to product at levels well below the exposure limit. Sensitization can be permanent. There is some evidence to suggest that long-term exposure to Toluene may affect hearing.
Sensitizing capability of material.....	Prolonged or repeated exposure may result in skin sensitization. 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.....	Toluene is fetotoxic in rats and mice at maternally toxic levels. Prolonged and repeated exposure of pregnant animals (>1500 ppm) to Toluene have been reported to cause adverse fetal developmental effects.
Mutagenicity.....	The data does not allow for an adequate assessment of the mutagenic effect.
Specific Target Organ Toxicity .....	May cause drowsiness or dizziness. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure .

**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.
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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.
DOT Classification (Road).....	UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - Ltd Qty (1 litre). Refer to 49CFR 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. 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.....	Toluene.
EPA hazardous air pollutants (HAPS) 40CFR63	Hexamethylene diisocyanate. Toluene.
California Proposition 65.....	*** ! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause birth defects or other reproductive harm. (Toluene). For more information, go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .

**PRODUCT: 13068 2K URETHANE PRIMER SURFACER ACTIVATOR****SECTION 16: OTHER INFORMATION**

Prepared by: ..... REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com.  
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