



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

**PRODUCT: 19250 TOLUENE U.S. GALLON**

### 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..... 19250 TOLUENE U.S. GALLON

Recommended use and restrictions on .. Organic solvent.  
use

Chemical family..... Aromatic hydrocarbons.

NFPA rating..... Health: 2 Fire: 3 Reactivity: 0.

HMIS..... H: 2 F: 3 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. Aspiration Toxicity 1. Skin Irritation — Category 2. Specific Target Organ Toxicity — Single Exposure — Category 3. Reproductive Toxicity — Category 2. Specific Target Organ Toxicity — Repeated Exposure — Category 2.

Hazard Description..... H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to the liver and kidneys through prolonged or repeated contact.

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. P280 Wear protective gloves and eye protection. P260 Do not breathe the mist, vapours, or spray. P264 Wash thoroughly after handling. P271 Use only outdoors or in a well ventilated area.

Response ..... P303 + P361 + P353 If on skin or in hair: take off all contaminated clothing immediately. Rinse thoroughly with water and use safety shower . P370 + P378 In case of fire - use dry chemical powder, CO2 or foam to extinguish. 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. P332 + P313 - If skin irritation occurs get medical attention or advice. P362 + P364 - Take off contaminated clothing and wash before reuse. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell. P308 + P313 If exposed or concerned, get medical advice/attention. P321 - For specific treatment see section 4 on this SDS.

Storage..... P403 + P235 Store in well ventilated area. Keep cool. P405 Store locked up. P233 Keep container tightly closed.

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. %
Toluene	108-88-3	100

**PRODUCT: 19250 TOLUENE U.S. GALLON****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. Consult a physician if irritation continues.
Skin contact.....	Immediately remove all contaminated clothing; flush skin with water for at least 15 minutes. 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.....	In the event of accidental ingestion, rinse mouth with water; obtain medical advice immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting. If spontaneous vomiting occurs have victim lean forward with head down to prevent aspiration of fluid into the lungs.
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 <sub>2</sub> , 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 <sub>2</sub> ). 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. Keep run-off water from entering sewers and other waterways. Dike for water control.
Unusual fire / explosion hazards.....	Vapours may be heavier than air. May travel long distances along the ground before igniting and flashing back to vapour source.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

Leak/spill.....	Evacuate all non-essential personnel. Ventilate. Eliminate all sources of ignition. Contain the spill. Avoid all personal contact. Absorb with earth, sand, or another dry inert material. Pick up and place in a tightly-sealed container duly identified. Use an appropriate technique to prevent any environmental contaminations. Use explosion-proof or hand pumps and non-sparking tools and equipment. Use explosion proof vacuum equipment. Prevent runoff into drains, sewers, and other waterways. 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.
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**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. Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. Avoid breathing vapours or mist. Handle and open container with care. Employees should wash hands and face before eating or drinking.
Conditions for safe storage, including any incompatibilities	Keep container closed when not in use. Store away from all sources of heat and ignition. Store away from oxidizing and reducing materials. Store away from sunlight. Use explosion proof equipment in areas where vapour concentrations can become ignitable.

**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

**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.

**PRODUCT: 19250 TOLUENE U.S. GALLON****SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

Other/type..... Eye wash facility and emergency shower should be in close proximity.  
 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..... Aromatic odour.  
 Odour threshold (ppm)..... Not available.  
 Vapour pressure (mm Hg)..... 52.5 mm Hg (7 kPa) @ 38°C.  
 Vapour density (air=1)..... >1. @ 101 kPa.  
 pH..... No data.  
 Relative Density (Specific Gravity)..... 7.25 lbs/USG - 0.870.  
 Melting / Freezing point (deg C)..... -95°C (-139°F).  
 Solubility..... In Water;. Negligible.  
 Initial boiling point / boiling range (deg C). 110°C.  
 Evaporation rate..... 2.4.  
 Flash point (deg C), method..... 4 C. (ASTM D-56).  
 Auto ignition temperature (deg C)..... > 500°C.  
 Upper explosive limit (% vol)..... 6.7.  
 Lower explosive limit (% vol)..... 1.3.  
 Partition coefficient — n-octanol/water..... Not available.  
 % Volatile by volume..... 100.  
 VOC (less water)..... 7.26 lb/usg.  
 Viscosity..... 0.65 cSt @ 25C.

**SECTION 10: STABILITY AND REACTIVITY**

Chemical stability..... Stable at normal temperatures and pressures.  
 Possibility of hazardous reactions..... Hazardous polymerization will not occur.  
 Reactivity ..... Excessive heat, sparks and open flame.  
 Conditions to avoid, including static ..... Oxidizing agents. Avoid natural, butyl and neoprene rubbers. Avoid prolonged contact with nitrile rubber and PVC.  
 discharge, shock or vibration  
 Hazardous decomposition products..... 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 ora); 12,124 mg/kg (rabbit dermal )
Route of exposure.....	Eye contact. Skin contact. Inhalation.	
Effects of acute exposure.....	Vapours can cause moderate irritation to the eyes. Can cause moderate skin irritation. Inhalation of vapours causes irritation to the nose, throat and respiratory tract. May cause central nervous system effects such as headache, nausea, vomiting and weakness. 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.	
Effects of chronic exposure.....	Breathing high concentrations of vapour may cause anesthetic effects and serious health effects. Repeated skin contact may result in defatting of the skin by the solvents in the product which can lead to redness and irritation of the skin. May cause damage to organs as a result of repeated or prolonged exposure.	
Carcinogenicity of material.....	IARC has classified Toluene as a Group 3 (Not classifiable as to its carcinogenicity to humans); ACGIH has classified Toluene as a Group A4 (Not classifiable as a human carcinogen).	
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.	

**SECTION 12: ECOLOGICAL INFORMATION**

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

**PRODUCT: 19250 TOLUENE U.S. GALLON****SECTION 13: DISPOSAL CONSIDERATIONS**

Information on safe handling for disposal and methods of disposal, including any contaminated packaging . 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. 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..... UN1294 - TOLUENE - Class 3 - PGII. Limited Quantity Index: 1 L.  
 DOT Classification (Road)..... UN1294 - Toluene - Class 3 - PGII. Ltd Qty (1 Liter/0.26 Gallons).  
 IATA Classification (Air)..... UN1294 - Toluene - Class 3 - PGII. Limited Quantity. Do not ship by air without checking appropriate IATA regulations.  
 IMDG Classification (Marine)..... UN1294 - Toluene - Class 3 - PGII. Limited Quantity.  
 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**

WHMIS 1988 classification..... B2, D2A, D2B.  
 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..... Toluene.  
 EPA hazardous air pollutants (HAPS) ..... Toluene.  
 40CFR63  
 California Proposition 65..... \*WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. (Toluene).

**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