



## T340PO, Titan Free-It Penetrant and Lubricant



### Section 1: Chemical Product and Company Identification

**Manufacturer or Supplier Name:** Shrader Canada Limited  
**Address:** 830 Progress Court, Oakville, Ontario L6L 6K1  
**Date of MSDS Preparation:** 06/26/2002 **Revision:** 1  
**Product Use:** Lubricant. Penetrant.  
**Chemical Family:** Complex mixture

### Section 2: Composition/Information on Ingredients

Hazardous Ingredients	%	LD50 and LC50	ACGIH TWA	Ecotoxicity - Aquatic Toxicity
PETROLEUM GASES, LIQUEFIED, SWEETENED 68476-86-8	10-30	Not Available	Not available	Not Available
2-BUTOXYETHANOL 111-76-2	1-5	Inhalation LC50 Rat : 450 ppm/4HInhalation LC50 Mouse : 700 ppm/7HOral LD50 Rat : 470 mg/kgOral LD50 Mouse : 1230 mg/kgDermal LD50 Rabbit : 220 mg/kg	skin - potential for cutaneous absorption 20 ppm TWA 20 ppm TWA	LC50 (96 hr) bluegill: 1490 mg/L. Cond: Static, 23 degrees C.; LC50 (24 hr) goldfish: 1650-1700 mg/L.; LC50 (24 hr) water flea: 1720 mg/L.
XYLENE, MIXTURE OF ISOMERS 1330-20-7	1-5	Inhalation LC50 Rat : 5000 ppm/4HOral LD50 Rat : 4300 mg/kgDermal LD50 Rabbit : >1700 mg/kg	150 ppm STEL 100 ppm TWA 150 ppm STEL 100 ppm TWA	LC50 (96 hr) rainbow trout: 8.05 mg/L. Cond: Flow-through, 16.7-17.7 degrees C, pH 7.39-0.22, 43.0 mg/L CaCO3.; LC50 (96 hr) fathead minnow: 16.1 mg/L. Cond: Flow- through, 16.7-17.7 degrees C, pH 7.39

### Section 3: Hazards Identification

**Ingestion:** Ingestion of small amounts during normal handling are not likely to cause injury. Larger amounts may cause effects similar to those described under inhalation. Ingestion of large amounts may cause stomach irritation.

Symptoms include nausea, vomiting and diarrhea. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

**Skin Contact:** 2-Butoxyethanol may be absorbed through the skin. Xylene may be absorbed through the skin. Under normal conditions of use, a single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts. Frequent or prolonged contact may dry and irritate the skin and cause a rash.

**Inhalation:** High concentrations may cause respiratory irritation and central nervous system depression with results ranging from dizziness and headache to unconsciousness.

**Eye Contact:** Direct contact causes eye irritation. Vapours will irritate the eyes. Symptoms will include pain, redness and tearing.

**Chronic Effects:** Chronic overexposure to 2-Butoxyethanol may cause liver, kidney and blood damage. Xylene has caused cardiac, liver and kidney effects and anemia in laboratory animal tests. Chronic overexposure to solvents such as Xylene can cause nervous system damage.

## Section 4: First Aid Measures

**Ingestion:** Do not induce vomiting. Drink two glasses of water. Call a physician.

**Skin Contact:** Wash with soap and water. Remove contaminated clothing and launder before reuse. Seek medical attention if irritation persists.

**Inhalation:** Not a hazard under normal use conditions. If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids. Remove contact lenses if any after the initial flushing and then continue flushing. Get medical attention if irritation persists.

**Additional Information** Exposure may increase myocardial irritability. Cardiac arrhythmia has been reported. Use sympathomimetic drugs with caution. The main hazard following ingestion is aspiration of the liquid into the lungs during subsequent vomiting. Only if more than 2.0 mL/kg body weight has been ingested, vomiting should be induced with supervision. If symptoms such as convulsions or unconsciousness occur before vomiting, gastric lavage should be considered.

## Section 5: Fire Fighting Measures

**Flash Point (°C):** 78 SFCC (Liquid Component)

**Flame Projection:** > 45 cm. Flashback.

**NFPA Classification:** Aerosol, Level 2

**Autoignition Temperature (°C):** Not Available

**Lower Explosive Limit:** Not Available

**Upper Explosive Limit:** Not Available

### Conditions of Flammability:

Flammable. Sprayed product will project a flame on contact with an ignition source. Contents under pressure. Containers can build up pressure if exposed to heat (fire). Vapours are heavier than air and may travel or be moved along the ground to an ignition source at locations distant from material handling.

### Sensitivity to Mechanical Impact:

Contents under pressure. Protect against physical damage.

**Sensitivity to Static Discharge:**

Take precautionary measures against static discharges.

**Extinguishing Media:**

Alcohol foam or water fog for large fires. Carbon dioxide or dry chemical for small fires. Use water spray to cool fire exposed containers and prevent bursting. Do not use a direct stream of water.

**Hazardous Combustion:**

Oxides of carbon, sulfur, nitrogen, phosphorous and other unidentified organic compounds.

## Section 6: Accidental Release Measures

**Leak or Spill Procedures:**

Contain spilled material. Avoid contamination of natural waterways. Wear suitable protective clothing. Follow applicable explosion and fire precautions during the response. Stop the spill at the source when safe to do so. For large spills, dike the area to prevent spreading. Pump excess to a salvage container. Absorb residues and small spills with a non-flammable absorbent material and collect adsorbate for disposal. For large quantities refer to the environmental ministry.

## Section 7: Handling and Storage

**Handling Procedures:**

Flammable. Keep away from heat, spark, flame and other sources of ignition. Do not use on hot vehicles. Use with adequate ventilation. Avoid breathing vapours. Avoid skin and eye contact. Wear all appropriate personal protective equipment during use. Use good personal hygiene. Avoid smoking, eating and drinking during use. Wash with soap and water after handling. Containers of this material may contain hazardous residues when emptied. Persons with cardiovascular or circulatory diseases, like angina, should not be exposed to this product. Wear all appropriate personal protective equipment during use.

**Storage Requirements:**

Store in a cool, dry, well-ventilated area. Storage temperatures should not exceed 40°C. Keep from freezing. Keep away from children.

## Section 8: Exposure Controls/Personal Protection

<b>Respiratory:</b>	Not normally required. If the TLV is exceeded, a NIOSH-approved respirator is advised.
<b>Gloves:</b>	Neoprene. Nitrile gloves.
<b>Eyewear:</b>	Safety glasses. Contact lenses should not be worn. They may contribute to the severity of the injury.
<b>Clothing:</b>	Sufficient clothing to prevent skin contact.
<b>Ventilation:</b>	Sufficient mechanical ventilation to maintain exposures below the TLV. Under normal conditions of use, general ventilation should be satisfactory. Local ventilation is recommended if the product is misted or used in a confined space or if the TLV is exceeded. Make up air should always be supplied to balance air exhausted.
<b>Other protective equipment</b>	Emergency showers and eyewash facilities should be nearby. The selection of personal protective equipment will vary depending on the

conditions of use.

## Section 9: Physical and Chemical Properties

<b>Physical State:</b>	Aerosol
<b>Odour:</b>	Aromatic odour.
<b>Appearance:</b>	Cloudy. Amber.
<b>Evaporation Rate:</b>	Not Available
<b>Vapour Density (Air=1):</b>	> 1
<b>VOC %:</b>	25
<b>Boiling Point:</b>	Not Available
<b>pH:</b>	Not available.
<b>Solubility in Water:</b>	Negligible
<b>Specific Gravity (H2O=1):</b>	0.82 to 0.85 @ 15°C
<b>Viscosity:</b>	Not available.

## Section 10: Stability and Reactivity

### **Conditions of Instability:**

Stable at ambient temperatures and pressures.

### **Hazardous Polymerization:**

Hazardous polymerization will not occur.

### **Hazardous Decomposition:**

See hazardous combustion products.

### **Incompatible Materials:**

Avoid strong oxidizers such as HOOH, HNO<sub>3</sub>, and oleum.

### **Conditions of Reactivity:**

Avoid excessive heat, sparks and open flame.

## Section 11: Toxicological Information

### **Irritancy of Product:**

May be mildly irritating to eyes and skin.

### **Sensitization to product:**

In rare cases, may sensitize the heart muscles causing heart arrhythmia. Contains no known skin or respiratory sensitizers.

### **Carcinogenicity:**

Petroleum derived oils may contain Polyaromatic Hydrocarbons (PAH) contaminants. Solvent refining and hydrotreating oil removes PAH's virtually eliminating the risk of cancer normally associated with PAH's and oils.

### **Reproductive Effects:**

2-Butoxyethanol is an experimental reproductive toxin. Xylene is reported to cause abnormally high miscarriage rates in pregnant animals.

**Teratogenicity:**

2-Butoxyethanol is an experimental teratogen. In laboratory animal teratology studies on 2-Butoxyethanol, no embryotoxicity or lethality was observed without maternal effects (concentrations 100-300 ppm). These studies do not establish a risk of birth defects in humans. Xylene is reported to cross the placenta. Effects on the offspring of pregnant, exposed animals included reduced birth weight, delayed bone and kidney development, and skeletal abnormalities.

**Mutagenicity:**

In-vitro mutagenicity tests for 2-Butoxyethanol have been negative. The results of in-vitro mutagenicity tests have been inconclusive.

**Synergistic Products:**

Xylene's potential for liver toxicity is enhanced by the presence of other solvents including ethanol.

## Section 12: Ecological Information

**Environmental:** See composition/information on ingredients.

**Biodegradability:** Not available.

## Section 13: Disposal Considerations

**Waste Disposal:** Contents under pressure. Do not puncture, incinerate or expose to heat even when empty. Reuse or recycling should be given priority over disposal under any circumstances. Do not dump unused contents into sewers, on the ground or into any body of water. Dispose of in accordance with municipal, provincial and federal regulations.

## Section 14: Transportation Information

**Road shipment:** AEROSOLS, Class 2.1, UN1950, ERG #126.

**Marine shipment:** AEROSOLS, Class 2, UN1950, EmS# F-E, S-U.  
**Flash Point (°C):** 78 SFCC (Liquid Component)

**Air Shipment:** Aerosols, Flammable, N.O.S., Class 2.1, UN1950, PI 203.

**Exemption:** LTD QTY exemptions may be used if product is packaged in accordance with Schedule 1 of TDGR (Clear Language)

## Section 15: Regulatory Information

**WHMIS:** A, B5, D1A

**CEPA:** All components are listed on the Domestic Substances List (DSL).

**CPR Compliance:** This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

## Section 16: Other Information

**HMIS Rating:** 241B  
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