



**T475ES  
Engine Degreaser**



**Section 1: Chemical Product and Company Identification**

**Manufacturer / Supplier:** Shrader Canada Limited  
**Address:** 830 Progress Court, Oakville, Ontario L6L 6K1  
**Revision Date:** 01/30/2012  
**Product Use:** Degreaser  
**Chemical Family:** Blend of petroleum-based solvents and detergents

**Section 2: Composition/Information on Ingredients**

<b>Component Name:</b>	<b>%</b>	<b>LD50 and LC50</b>	<b>ACGIH TWA</b>	<b>Ecotoxicity - Aquatic Toxicity</b>
Stoddard Solvent 8052-41-3	10-30	Oral LD50 Rat: > 5000 mg/kg Dermal LD50 Rabbit: > 3000 mg/kg Inhalation LC50 Rat: > 1300 ppm 4h	= 100 ppm TWA	Not Available
Solvent Naphtha (Petroleum), Light Aromatic 64742-95-6	10-30	Inhalation LC50 Rat:3400 ppm 4h Oral LD50 Rat:8400 mg/kg Dermal LD50 Rabbit:2000 mg/kg Inhalation LC50 Rat:5.2 mg/L 4h	Not available	Not Available
1,2,4-Trimethylbenzene 95-63-6	7-13	Inhalation LC50 Rat:18 g/m <sup>3</sup> 4h Oral LD50 Rat:3400 mg/kg Oral LD50 Rat:8970 mg/kg Dermal LD50 Rabbit:3160 mg/kg	= 25 ppm TWA	LC50 (96 h) fathead minnow: 7.72 mg/L. Cond: flow-through LC50 (96 h) goldfish: 12.52 mg/L. Cond: flow-through LC50 (96 h) fathead minnow: 7.72 mg/L. Cond: flow-through
Petroleum gases, liquified 68476-85-7	7-13	Not Available	= 1000 ppm TWA	Not Available
Alcohols, C9-C11, Ethoxylated 68439-46-3	1-5	Not Available	Not available	Not Available

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Ethylene glycol 107-21-1	1-5	Oral LD50 Rat:4000 mg/kg Dermal LD50 Rabbit:9530 µL/kg	Not available	LC50 (96 h) goldfish: 27500 mg/L. Cond: LC50 (96 h) rainbow trout: 41000 mg/L. Cond: LC50 (96 h) bluegill: 27500 mg/L. Cond: LC50 (48 h) water flea: 46300 mg/L EC50 (30 min) Photobacterium phosphoreum : 620.0 mg/L
Trimethylbenzene-1,3,5 108-67-8	1-5	Inhalation LC50 Rat:24 g/m <sup>3</sup> 4h Oral LD50 Rat:8970 mg/kg	= 25 ppm TWA	LC50 (96 h) goldfish: 12.5 mg/L. Cond: LC50 (96 h) goldfish: 12.52 mg/L. Cond: flow-through LC50 (72 h) goldfish: 13.7 mg/L. Cond: LC50 (96 h) fathead minnow: 7.72 mg/L. Cond: flow-through LC50 (96 h) fathead minnow: 3.48 mg/L. Cond: EC50 (24 h) water flea: 50 mg/L
Xylene (mixture of isomers) 1330-20-7	1-5	Oral LD50 Rat:4300 mg/kg Inhalation LC50 Rat:5000 ppm 4h Dermal LD50 Rabbit:1700 mg/kg	= 100 ppm TWA =150 ppm STEL	LC50 (96 h) fathead minnow: 13.4 mg/L. Cond: flow-through LC50 (96 h) rainbow trout: 8.05 mg/L. Cond: flow-through LC50 (96 h) bluegill: 16.1 mg/L. Cond: flow-through EC50 (48 h) water flea: 3.82 mg/L EC50 (24 h) Photobacterium phosphoreum : 0.0084 mg/L
n-Nonane 111-84-2	0.5-1.5	Inhalation LC50 Rat:3200 ppm 4h	= 200 ppm TWA	Not Available
Diethylbenzenes 25340-17-4	0.5-1.5	Not Available	Not available	Not Available
Cumene (Isopropylbenzene) 98-82-8	0.5-1.5	Oral LD50 Rat:1400 mg/kg Dermal LD50 Rabbit:3160 mg/kg	= 50 ppm TWA	LC50 (96 h) fathead minnow: 6.32 mg/L. Cond: flow-through EC50 (48 h) water flea: 0.6 mg/L EC50 (15 min) Photobacterium phosphoreum : 1.10 mg/L EC50 (30 min) Photobacterium phosphoreum : 1.48 mg/L EC50 (5 min) Photobacterium phosphoreum : 0.89 mg/L
Naphthalene 91-20-3	0.1-1.0	Dermal LD50 Rat:2500 mg/kg Oral LD50 Rat:490 mg/kg Dermal LD50 Rabbit:20 g/kg Inhalation LC50 Rat:340 mg/m <sup>3</sup> 1h	= 10 ppm TWA =15 ppm STEL Skin - potential significant contribution to overall exposure by the cutaneous route	LC50 (96 h) fathead minnow: 6.14 mg/L. Cond: flow-through LC50 (96 h) rainbow trout (juvenile): 1.60 mg/L. Cond: flow-through LC50 (96 h) pink salmon (fry): 1.24 mg/L. Cond: static EC50 (48 h) water flea: 2.16 mg/L EC50 (30 min) Photobacterium phosphoreum : 0.93 mg/L

## Section 2: Composition/Information on Ingredients

Ethyl benzene 100-41-4	0.1-1.0	Dermal LD50 Rabbit:15354 mg/kg Inhalation LC50 Rat:17.2 mg/L 4h Oral LD50 Rat:3500 mg/kg	= 100 ppm TWA =125 ppm STEL	LC50 (96 h) bluegill: 150.0 mg/L. Cond: static LC50 (96 h) fathead minnow: 9.09 mg/L. Cond: flow-through LC50 (96 h) rainbow trout: 14.0 mg/L. Cond: static EC50 (48 h) water flea: 2.1 mg/L EC50 (30 min) Photobacterium phosphoreum : 9.68 mg/L
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## Section 3: Hazards Identification

<b>Ingestion:</b>	This product is harmful if swallowed. Symptoms include nausea, vomiting and diarrhea. Ingestion may cause respiratory irritation and central nervous system depression similar to inhalation. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.
<b>Inhalation:</b>	No hazard under normal conditions of use. High concentrations may cause respiratory irritation and central nervous system depression with results ranging from dizziness and headache to unconsciousness.
<b>Skin Contact:</b>	Skin irritant.
<b>Eye Contact:</b>	Eye irritant.
<b>Chronic Effects:</b>	Chronic overexposure may cause blood, liver and kidney effects. Reports have associated repeated and prolonged occupational overexposure to various organic solvents with internal organ, brain and nervous system damage.

## Section 4: First Aid Measures

<b>Ingestion:</b>	Do not induce vomiting. Never give anything by mouth if victim is rapidly losing consciousness, is unconscious or is convulsing. Drink two glasses of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Obtain medical attention immediately.
<b>Inhalation:</b>	If inhaled, remove to fresh air. If breathing is difficult give oxygen. If not breathing give artificial respiration and get medical attention immediately.
<b>Skin Contact:</b>	Remove contaminated clothing and launder before reuse. Wash with soap and water. Seek medical attention if irritation persists.
<b>Eye Contact:</b>	Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

## Section 5: Fire Fighting Measures

<b>Flash Point (°C):</b>	49 °C TCC (Liquid Component)
<b>Flame Projection:</b>	> 100 cm. No flashback.
<b>NFPA Classification:</b>	Aerosol, Level 2
<b>Lower Explosive Limit:</b>	Not Available
<b>Upper Explosive Limit:</b>	Not Available
<b>Autoignition Temp. (°C):</b>	Not Available

**Sensitivity to Mechanical Impact:**  
Contents under pressure. Protect against physical damage.

**Conditions of Flammability:**  
Contents under pressure. Sprayed product will project a flame on contact with an ignition source. 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 Static Discharge:**

Take precautionary measures against static discharges, such as bonding and grounding when dispensing.

**Hazardous Combustion:**

Carbon dioxide, carbon monoxide and other unidentified organic compounds.

**Extinguishing Media:**

Alcohol foam or water fog for large fires. Carbon dioxide or dry chemical for small fires.

## 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. Contents under pressure. Take precautionary measures against static discharges, such as bonding and grounding when dispensing. Use with adequate ventilation. Avoid breathing vapours or mist. 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. Do not cut, weld, drill or grind on or near this container.

**Storage Requirements:**

Flammable. Keep away from heat, sparks and open flame. Store in a cool, dry, well-ventilated area. Storage temperatures should not exceed 40°C. Keep from freezing. Store at ambient temperatures above 10°C.

## Section 8: Exposure Controls / Personal Protection

**Respiratory:** Not normally required. If the TLV is exceeded, a NIOSH-approved respirator is advised.

**Gloves:** Neoprene. Nitrile gloves.

**Eyewear:** Safety glasses. Contact lenses should not be worn. They may contribute to the severity of the injury.

**Clothing:** Sufficient clothing to prevent skin contact.

**Ventilation:** Sufficient mechanical ventilation to maintain exposures below the TLV. General mechanical ventilation is not recommended as the sole means of controlling exposure. Make-up air should always be supplied to balance air exhausted.

**Other protective equipment:** 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

**Physical State:** Aerosol

**Color:** Clear yellow

**Odour:** Not Available

**Vapour Density (Air=1):** > 1

**VOC %:** 66.2

**pH:** 9.9 at 10% volume

**Solubility in Water:** Partial

**Specific Gravity (H2O=1):** 0.88 at 15°C

**Viscosity:** < 14cSt @ 40°C

## 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 (e.g HOOH, HNO3).

### Conditions of Reactivity:

Avoid excessive heat, sparks and open flame.

## Section 11: Toxicological Information

### Irritancy of Product:

Eye and skin irritant. Vapours or mist may cause respiratory irritation.

### Sensitization to product:

Contains no known skin or respiratory sensitizers.

### Carcinogenicity:

Contains cumene (isopropylbenzene), which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by IARC. Contains 0.1 - 1.0% by wt ethylbenzene, which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by IARC. Contains 0.1 - 1.0% by wt naphthalene, which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by IARC.

### Reproductive Effects:

Not Available

### Teratogenicity:

Contains a component that contains xylene. Xylene is reported to be fetotoxic.

### Mutagenicity:

Not Available

### Synergistic Products:

Not Available

## Section 12: Ecological Information

### Environmental:

Toxic to aquatic life. Aromatic hydrocarbons may be bioaccumulative but they have no food chain concentration potential. 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. 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:

UN1950, AEROSOLS, Class 2.1, EmS# F-D, S-U.

### Air Shipment:

Aerosols, Flammable, Class 2.1, UN1950, PI Y203/203.

**Exemption:**

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

Product may be reclassified for air transportation if packaged in accordance to IATA regulations (i.e. Consumer Commodity, Class 9, ID 8000).

## Section 15: Regulatory Information

**WHMIS:** A B5 D2A D2B

**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

**Prepared By:**

Regulatory Compliance, Shrader Canada Limited

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