

# MATERIAL SAFETY DATA SHEET

Trade Name: Zak Power Steering Cleaner  
MSDS NO. PS705  
Revision Date:  
Date Printed 07/26/2007

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Zak Power Steering Cleaner  
Chemical Family: PETROLEUM HYDROCARBON OIL  
Synonyms: None  
Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300  
Supplier: Zak Products, 3006 Skyway Circle South, Irving, Texas 75038

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	OSHA TWA	OSHA STEL	OSHA SKIN
Solvent Refined Light Paraffinic Distillate 64741-89-5	80-90	Not Listed	Not Listed	Not Listed
Glycol Ether EB 111-76-2	10-20	Not Listed	Not Listed	50 ppm

Component	Weight %	OSHA Z PEL	OSHA Z TWA	OSHA Z Ceiling
Solvent Refined Light Paraffinic Distillate 64741-89-5	80-90	Not Listed	Not Listed	Not Listed
Glycol Ether EB 111-76-2	10-20	240 mg/m <sup>3</sup> 50 ppm	120 mg/m <sup>3</sup> 25 ppm	Not Listed

Component	ACGIH TLV TWA	ACGIH TLV STEL	ACGIH TLV Ceiling
Solvent Refined Light Paraffinic Distillate 64741-89-5	5 mg/m <sup>3</sup> Mist.	10 mg/m <sup>3</sup> Mist.	Not Listed
Glycol Ether EB 111-76-2	20 ppm	Not Listed	Not Listed

## 3. HAZARDS IDENTIFICATION

**Emergency Overview:** Danger: Harmful or fatal if liquid is aspirated into lungs. Harmful or fatal if swallowed. This material is an eye and skin irritant. Harmful if absorbed through the skin. Keep away from heat, sparks, and flame.

**HMIS Classification:** Health: 2\* Flammability: 2 Reactivity: 0  
**NFPA Rating:** Health: 3 Flammability: 2 Reactivity 0

## 4. FIRST AID MEASURES

**Eye Contact:** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

**Ingestion:** DO NOT INDUCE VOMITING. Give nothing by mouth. Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration. Pulmonary aspiration hazard if swallowed and/oil vomiting occurs - can enter lungs and cause damage.

**Inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

**Skin Contact:** Wash with soap and water. Remove contaminated clothing and shoes, and launder before reuse. If irritation persists or signs of toxicity occur, seek medical attention. If product is injected into or under the skin, or into any part of the body, the individual should be evaluated immediately by a physician as a surgical emergency.

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### 5. FIRE FIGHTING MEASURES

#### Flammable Properties

Flash Point °F(°C): >250 F  
Flash Point Method: COC  
Flammable Limits in Air - Lower (%): Not Determined  
Flammable Limits in Air - Upper (%): Not Determined  
Autoignition Temperature °F(°C): 600 F Estimated  
Extinguishing Media: Foam. Water. Dry chemical. Carbon dioxide.  
Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Forms peroxides of unknown stability classified as combustible.  
Hazardous Combustion Products: Fumes and Smoke. Carbon Monoxide. Aldehydes. Carbon Dioxide. . Asphyxiants. Forms peroxides of unknown stability.  
Aerosol Comments: Not Applicable

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact. Do not ingest.  
Spill Procedures: Contain any liquid from leaking containers. Keep away from heat sparks and flames.  
Action to be taken if material is released or spilled: Wear proper protective equipment as specified in the protective equipment section. Remove sources of ignition. Increase area ventilation. Absorb spills on inert material such as perlite, vermiculite, sand or dirt. Place in double polyethylene bags. Isolate from other waste materials.  
Environmental Precautions: Do not allow to enter sanitary drains, sewer or surface and subsurface waters.

### 7. HANDLING AND STORAGE

Handling and Storage: Keep container closed when not in use. Avoid contact with skin and eyes. Use only in a well ventilated area. Keep away from heat and open flame. Keep away from food and smoking materials. Wash hands before eating and smoking. Do Not Swallow.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Showers. Eyewash stations. Use local exhaust.  
Eyes: Wear safety glasses or goggles to protect against exposure.  
Skin Protection: Use chemical resistant gloves for prolonged skin contact. Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking and when leaving work.  
Respiratory Protection: Use in a well ventilated area. Use approved NIOSH respiratory protection if TLV exceeded..... Or over exposure is likely.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless to light yellow liquid  
Odor: MILD PETROLEUM  
pH Value: Not Determined  
Vapor Pressure: Not Determined  
Vapor Density (Air=1): 9  
Boiling Point (°F): >300 F  
Melting/Freezing Point: Not determined.  
Solubility in Water: <15%  
Bulk Density at 20°C: Not Determined  
Molecular Weight: Mixture  
Specific Gravity (H2O=1): .86 @ 60 F  
Viscosity: 60 SUS @ 100 F  
Evaporation Rate: Not Determined  
VOC Content(%): Not determined.  
Decomposition Temperature: Not Known

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## 10. STABILITY AND REACTIVITY

**Chemical Stability:** STABLE. Can form peroxides of unknown stability.  
**Conditions to Avoid:** Keep away from heat, sparks and flame.  
**Materials to Avoid:** Strong oxidizing agents.  
**Hazardous Decomposition Products:** Carbon monoxide. and other asphxiants.  
**Hazardous Polymerization:** WILL NOT OCCUR

## 11. TOXICOLOGICAL INFORMATION

### Toxicological Data:

Component	Route	Species	Dose
Solvent Refined Light Paraffinic Distillate 64741-89-5	Oral	Rats	LD50 >15 gm/kg
Glycol Ether EB 111-76-2	Inhalation	Rats	LC50 450 ppm/4H

### Carcinogenicity:

Component	IARC	NTP	OSHA
Solvent Refined Light Paraffinic Distillate 64741-89-5	Not Listed	Not Listed	Not Listed
Glycol Ether EB 111-76-2	Not Listed	Not Listed	Not Listed

## 12. ECOLOGICAL INFORMATION

**Remarks:** Ecological testing has not been conducted on this product.

## 13. DISPOSAL CONSIDERATION

**Waste Classification:** Not determined.  
**Waste Management:** Not determined.  
**Disposal Method:** Disposal should be made in accordance with federal, state and local regulations.

## 14. TRANSPORTATION INFORMATION

### U.S. DOT:

**Proper Shipping Name:** Not Regulated  
**Hazard Class:** Not Regulated  
**UN/NA Number:** Not Applicable  
**DOT Packing Group:** Not Applicable

### IMDG:

**Proper Shipping Name:** Not Regulated  
**Hazard Class:** Not Regulated  
**Hazard Subclass:** Not Regulated  
**UN No.:** Not Regulated  
**Packing Group:** Not Regulated  
**Marine Pollutant:** No.

## 15. REGULATORY INFORMATION

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## 15. REGULATORY INFORMATION

**US Federal Regulations:**

Component	SARA 313	SARA 302	TPQ	RQ
Solvent Refined Light Paraffinic Distillate 64741-89-5	Not Listed	Not Listed	Not Listed	Not Listed
Glycol Ether EB 111-76-2	Listed.	Not Listed	Not Listed	Not Listed

**SARA 311/312 Hazard Categories:** Not Determined.

**State Regulations:**

Component	California Prop. 65 Cancer list	California - Prop 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Solvent Refined Light Paraffinic Distillate 64741-89-5	Not Listed	Not Listed	Not Listed	Not Listed
Glycol Ether EB 111-76-2	Not Listed	Not Listed	Not Listed	Not Listed

Component	New Jersey Right-to-Know List:
Solvent Refined Light Paraffinic Distillate 64741-89-5	Substance no. 1437
Glycol Ether EB 111-76-2	Substance no. 0275 Substance no. 2265

**U.S. TSCA:** The components of this product are listed on the TSCA Inventory.  
**Canadian Inventory:** The components of this product are listed on the Canadian DSL or NDSL Inventory.

## 16. OTHER INFORMATION

**General Notes:**  
**Disclaimer:**

Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system. THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN HAVE BEEN COMPILED FROM SOURCES CONSIDERED TO BE DEPENDABLE. TO THE BEST OF THE COMPANY'S KNOWLEDGE AND BELIEF THEY ARE ACCURATE AND RELIABLE AS OF THE DATE ISSUED. THE COMPANY DOES NOT WARRANT OR GUARANTEE THEIR ACCURACY OR RELIABILITY, AND SHALL NOT BE LIABLE FOR ANY DAMAGE ARISING OUT OF THE USE THEREOF. IT IS THE USER'S RESPONSIBILITY TO SATISFY THAT THE INFORMATION IS SUITABLE AND COMPLETE FOR IT'S PARTICULAR USE.