



MATERIAL SAFETY DATA SHEET

ZAK UNIVERSAL POWER STEERING FLUID

PRODUCT CODE: PS701U

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Zak Universal Power Steering Fluid
Chemical Family: Petroleum Oil Blend
Synonyms: None
Supplier: ZAK Products, 720 Industrial Blvd. #400, Grapevine, TX 76051
Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300
Information Telephone: ZAK Products 1-800-514-6011 During normal business hours CST 817-645-6088

Revision Date: 02/22/2002
Date Printed: 09/15/2003

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient/CAS No.	wt. %	OSHA PEL TWA	OSHA PEL Ceiling Limits	ACGIH TLV TWA	ACGIH TLV STEL
Refined Petroleum Oil and selected additives Not Availabl	100	None Established	None Established	5 mg/m3 as Oil mist	None Established

3. HAZARDS IDENTIFICATION

Emergency Overview: Causes moderate eye irritation. May cause moderate eye irritation. Possible redness and defatting may result from prolonged skin exposure to this material.

4. FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Seek medical attention if irritation persists.

Ingestion: Get immediate medical attention. DO NOT INDUCE VOMITING. Give nothing by mouth.

Inhalation: Not a hazard under normal use conditions. 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: Flush with copious amounts of water. Remove contaminated clothing and shoes, and launder before reuse. Get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point °F(°C): 390 - 420 F.

Flash Point Method: TAG Open Cup

Flammable Limits in Air - Lower (%): Not Determined

Flammable Limits in Air - Upper (%): Not Determined

Autoignition Temperature °F(°C): Not Determined

Extinguishing Media: Water fog, carbon dioxide, foam, dry chemical.

Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Do not reuse runoff from fire control methods to sewers or waterways.

Hazardous Combustion Products: Oxides of carbon, nitrogen and phosphorus. Hydrogen Sulfide.

Aerosol Comments: Not Applicable

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact.

Spill Procedures: Wear protective equipment specified. Contain any liquid from leaking containers. Absorb spills on inert material such as perlite, vermiculite, sand or dirt. Place in double polyethylene bags. Isolate from other waste materials. Wash walking surfaces with detergent and water to reduce slipping hazard.

Environmental Precautions: Do not allow to enter sanitary drains, sewer or surface and subsurface waters.

7. HANDLING AND STORAGE

Handling and Storage: Avoid contact with eyes. Keep containers tightly closed when not in use. Good hygienic practices should be observed. Work clothes should be washed separately at the end of each work day. Disposable clothing should be discarded with material. Wash thoroughly after handling. Do Not Swallow.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Eyewash stations. Showers. Use local exhaust.
Eyes: Wear safety glasses or goggles to protect against exposure.
Skin Protection: Use chemical resistant gloves for prolonged skin contact. Launder contaminated clothing before reuse.
Respiratory Protection: Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light yellow to amber color liquid.
Odor: MILD HYDROCARBON **pH Value:** Not Determined
Vapor Pressure: >1 mm Hg @ 20 C. **Vapor Density (Air=1):** Not Determined
Boiling Point (°F): Not Determined **Melting/Freezing Point:** Not Determined.
Solubility in Water: SLIGHT **Bulk Density at 20°C:** Not Determined
Molecular Weight: Mixture **Evaporation Rate:** Not Determined
Viscosity: Not Determined **Specific Gravity (H2O=1):** <1.00 @ 60F
VOC Content(%): Not determined. **Decomposition Temperature:** Not Known

10. STABILITY AND REACTIVITY

Chemical Stability: STABLE.
Conditions to Avoid: Keep away from heat, sparks and flame.
Materials to Avoid: Strong oxidizing agents.
Hazardous Decomposition Products: Oxides of nitrogen. Oxides of carbon. Oxides of phosphorus. Hydrogen sulfide
Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Ingredient/CAS No.	wt. %	Route	Species	Dose
Refined Petroleum Oil and selected additives Not Availabl	100	Oral	Rats	LD50 5000 mg/kg

Carcinogenicity:

Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
Refined Petroleum Oil and selected additives Not Availabl	100	Not Listed	Not Listed	Not Listed

No component known to be present in this product at >.1% is presently listed as a carcinogen by IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

13. DISPOSAL CONSIDERATION

Waste Classification: If disposed of, this material may be hazardous for disposal under RCRA due to reactivity.

Waste Management: Not determined.

Disposal should be made in accordance with federal, state and local regulations.

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14. TRANSPORTATION INFORMATION

U.S. DOT:

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

IMDG:

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

15. REGULATORY INFORMATION

US Federal Regulations:

Ingredient/CAS No.	wt. %	SARA 313	SARA 302	RQ	TPQ
Refined Petroleum Oil and selected additives Not Availabl	100	Not Listed	Not Listed	NA	NA

Hazardous per OSHA 29 CFR 1910.1200

SARA 311/312 Hazard Categories: Immediate Delayed

State Regulations:

Ingredient/CAS No.	wt. %	California Prop. 65 Cancer list	California Prop. 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Refined Petroleum Oil and selected additives Not Availabl	100	Not Listed	Not Listed	Not Listed	Not Listed

U.S. TSCA: The components of this product are listed on the TSCA Inventory.

16. OTHER INFORMATION

General Notes: Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system.

Disclaimer:

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