



MATERIAL SAFETY DATA SHEET

ZAK AUTOMATIC TRANSMISSION FLUID

PRODUCT CODE: T401

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: ZAK Automatic Transmission Fluid
Chemical Family: Petroleum Hydrocarbon Oil
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

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 TLW STEL
Solvent Refined Light Paraffinic Distillate 64741-89-5	77-82	5 mg/m ³	None Established	5 mg/m ³	None Established
Copolymer ester proprietary	2-4	None Established	None Established	None Established	None Established
Trade Secret : Synthetic Seal Swell	.7-1.2				
Ethoxylated amine proprietary	.1-.3	None Established	None Established	None Established	None Established
Diphenylamine 122-39-4	0-.2	None Established	None Established	10 mg/m ³	None Established
Xylene 1330-20-7	0-.1	100 ppm	Not Known	100 ppm	150 ppm

3. HAZARDS IDENTIFICATION

Emergency Overview: May irritate the skin. May cause moderate eye irritation. Gross inhalation overexposure may cause: Central nervous system depression with dizziness, confusion, incoordination, drowsiness or unconsciousness or death. Avoid breathing vapors. May be fatal if inhaled.

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. If material is hot, treat for thermal burns and take victim to hospital immediately.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person.

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.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point °F(°C): 197.6F (lowest component)
Flash Point Method: TAG Closed Cup
Flammable Limits in Air - Lower (%): Not Determined
Flammable Limits in Air - Upper (%): Not Determined
Autoignition Temperature °F(°C): Not Determined
Extinguishing Media: Foam. Water. Dry chemical.

Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Do not direct a solid stream of water or foam into hot, burning pools; this may cause frothing and increase fire intensity.

Hazardous Combustion Products: Fumes and Smoke. Carbon Monoxide.

Aerosol Comments: Not Applicable

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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact.
Spill Procedures: Contain any liquid from leaking containers.
 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 breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Use only in a well ventilated area. Caution: Combustible. Keep away from heat and open flame. Keep away from food and smoking materials. Wash hands before eating and smoking.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Showers. Eyewash stations. Use in a well ventilated area.
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):** Not Determined
Boiling Point (°F): not determined **Melting/Freezing Point:** Not determined.
Solubility in Water: NEGLIGIBLE **Bulk Density at 20°C:** Not Determined
Molecular Weight: Mixture **Evaporation Rate:** Not Determined
Viscosity: Not determined. **Specific Gravity (H2O=1):** .9 approx.
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. Strong acids.
Hazardous Decomposition Products: Carbon monoxide. and other asphxiants.
Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Ingredient/CAS No.	wt. %	Route	Species	Dose
Solvent Refined Light Paraffinic Distillate 64741-89-5	77-82	Oral	Rats	LD50 >15 gm/kg
Copolymer ester proprietary	2-4	Inhalation	Rats	Not known.
Trade Secret : Synthetic Seal Swell	.7-1.2	Inhalation	Rats	Not known.
Ethoxylated amine proprietary	.1-.3	Inhalation	Rats	Not known.
Diphenylamine 122-39-4	0-.2	Inhalation	Rats	Not known.
Xylene 1330-20-7	0-.1	Inhalation	Rats	LC50 5000 ppm

Carcinogenicity:

Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
Solvent Refined Light Paraffinic Distillate	77-82	Not Listed	Not Listed	Not Listed

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Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
64741-89-5				
Copolymer ester proprietary	2-4	Not Listed	Not Listed	Not Listed
Trade Secret : Synthetic Seal Swell	.7-1.2	Not Listed	Not Listed	Not Listed
Ethoxylated amine proprietary	.1-3	Not Listed	Not Listed	Not Listed
Diphenylamine 122-39-4	0-.2	Not Listed	Not Listed	Not Listed
Xylene 1330-20-7	0-.1	Group 3 (not classifiable)	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

13. DISPOSAL CONSIDERATION

Waste Classification: Not determined.

Waste Management: Not determined.

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 determined.
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
Solvent Refined Light Paraffinic Distillate 64741-89-5	77-82	Not Listed	Not Listed	NA	NA
Copolymer ester proprietary	2-4	Not Listed	Not Listed	NA	NA
Trade Secret : Synthetic Seal Swell	.7-1.2				
Ethoxylated amine proprietary	.1-3	Not Listed	Not Listed	NA	NA
Diphenylamine 122-39-4	0-.2	Listed	Not Listed	NA	NA
Xylene 1330-20-7	0-.1	Listed	Not Listed	100	NA

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SARA 311/312 Hazard Categories: Not Determined.

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
Solvent Refined Light Paraffinic Distillate 64741-89-5	77-82	Not Listed	Not Listed	Not Listed	Not Listed
Copolymer ester proprietary	2-4	Not Listed	Not Listed	Not Listed	Not Listed
Trade Secret : Synthetic Seal Swell	.7-1.2	Not Listed	Not Listed	Not Listed	Not Listed
Ethoxylated amine proprietary	.1-3	Not Listed	Not Listed	Not Listed	Not Listed
Diphenylamine 122-39-4	0-2	Not Listed	Not Listed	Not Listed	Not Listed
Xylene 1330-20-7	0-1	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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