

MATERIAL SAFETY DATA SHEET

Trade Name: ZAK Windshield Washer Concentrate
MSDS NO. WW943K
Revision Date:
Date Printed 11/07/2005

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: ZAK Windshield Washer Concentrate
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

Ingredient/CAS No.	wt. %	OSHA PEL TWA	OSHA PEL Ceiling Limits	ACGIH TLV TWA	ACGIH TLW STEL
Methyl Alcohol 67-56-1	95-100	200 ppm	Not Known	200 ppm	250 ppm
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched 127087-87-0	<5	None Established	None Established	None Established	None Established

3. HAZARDS IDENTIFICATION

Emergency Overview: Flammable Liquid. Ingestion of even small amounts of methyl alcohol can cause blindness and death. Cannot be made nonpoisonous. May cause eye injury which may persist for several days. Liquid and vapor in high concentrations, causes eye irritation, tearing and burning sensations. Prolonged or widespread skin contact may result in absorption of potentially harmful amounts of material. Prolonged inhalation of vapors causes dizziness, nausea, visual impairment, respiratory failure, muscular incoordination and narcosis. Inhalation of high concentrations for prolong periods has resulted in death. Liver damage has resulted from prolonged or repeated inhalation of vapors. Danger: Poison. Keep away from heat, sparks, and flame.

HMIS Classification: Health: *2 Flammability: 3 Physical Hazard: 0
NFPA Rating: Health: 1 Flammability: 3 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: If swallowed, induce vomiting immediately by giving two glasses of water and sticking fingers down throat; never give anything to an unconscious person. Get medical attention. Drink a large amount of water, milk or sodium bicarbonate to dilute material in stomach.

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: Remove contaminated clothing and shoes, and launder before reuse. Wash with soap and water. Get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point °F(°C): 52 F. (Lowest Component)
Flash Point Method: TAG Closed Cup
Flammable Limits in Air - Lower (%): 6% (lowest Component)
Flammable Limits in Air - Upper (%): 36% (Lowest Component)
Autoignition Temperature °F(°C): 475 F. (Lowest Component)
Extinguishing Media: Alcohol foam. Carbon dioxide. Dry chemical. Foam.

Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Vapor may cause flash fire. Avoid water streams which may splash and spread flaming liquid. Water spray can be used to reduce the intensity of the flames and dilute spills to a non-flammable mixture. Methanol and water mixtures will burn unless very dilute. Mixtures with 25% or more Methanol are OSHA Class 1 Flammable Liquids.

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Hazardous Combustion Products: Carbon Dioxide. Carbon Monoxide. Acrid smoke and irritating fumes.
Aerosol Comments: Not Applicable

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact. Avoid breathing gas. When airborne exposure limits are exceeded use NIOSH approved respiratory protection equipment appropriate to the material and/or its components.

Spill Procedures: Wear protective equipment specified. Only trained and qualified personnel should handle any spilled or leaked product. 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. Stop release at source. Dike area and contain.

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. Keep away from food and smoking materials. Wash hands before eating and smoking. Keep away from heat and open flame. Avoid extreme temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Showers. Eyewash stations. Use local exhaust.

Eyes: Safety glasses with side shields.

Skin Protection: Launder contaminated clothing before reuse. 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: Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure. Organic vapor cartridge respirators NOT recommended for methanol vapor exposures.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Topical: blue liquid
Odor: MILD-ALCOHOL
pH Value: approx. 7
Vapor Pressure: 135 @ 25 C
Vapor Density (Air=1): 1.11
Boiling Point (°F): 148 F
Melting/Freezing Point: Not determined.
Solubility in Water: SOLUBLE
Bulk Density at 20°C: 6.6 lb/gal
Molecular Weight: Mixture
Specific Gravity (H2O=1): .791 @ 60 F
Viscosity: Not determined.
Evaporation Rate: >1
VOC Content(%): >98%
Decomposition Temperature: Not Known

10. STABILITY AND REACTIVITY

Chemical Stability: STABLE.
Conditions to Avoid: Avoid any source of ignition.
Materials to Avoid: Strong oxidizing agents. Chromic anhydride, lead perchlorate and perchloric acids.
Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide. Acrid smoke with irritating fumes.
Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Ingredient/CAS No.	wt. %	Route	Species	Dose
Methyl Alcohol 67-56-1	95-100	Inhalation	Rats	LC50 64,000 ppm

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Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched
127087-87-0 <5 Oral Rats LD50 2.52 ml/kg 24 Hr.

Carcinogenicity:

Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
Methyl Alcohol 67-56-1	95-100	Not Listed	Not Listed	Not Listed
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched 127087-87-0	<5	Not Listed	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: Consumer Commodity
Hazard Class: ORM-D
UN/NA Number: Not Applicable
DOT Packing Group: Not Applicable

IMDG:

Proper Shipping Name: Flammable Liquid, n.o.s. (Methanol Mixture) Limited Quantity
Hazard Class: 3
Hazard Subclass: Not determined.
UN No.: UN 1993
Packing Group: PG II
Marine Pollutant: No

15. REGULATORY INFORMATION

US Federal Regulations:

Ingredient/CAS No.	wt. %	SARA 313	SARA 302	RQ	TPQ
Methyl Alcohol 67-56-1	95-100	Listed	Not Listed	5000 lb	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
Methyl Alcohol 67-56-1	95-100	Not Listed	Not Listed	Not Listed	Not Listed
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched 127087-87-0	<5	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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