

# Material Safety Data Sheet



Zep Inc.  
1310 Seaboard Industrial Blvd.  
Atlanta, GA 30318  
1-877-793-7776

## Section 1. Chemical Product and Company Identification

**Product name** WINDSHEILD WASHER  
ANTIFREEZE SOLUTION  
**Product use** Windshield Washer Fluid and Antifreeze  
**Product code** R243  
**Date of issue** 07/17/09 **Supersedes**

### Emergency Telephone Numbers

**For MSDS Information:**  
Compliance Services 1-877-793-7776

**For Medical Emergency**  
(877) 541-2016 Toll Free - All Calls Recorded

**For Transportation Emergency**  
CHEMTREC: (800) 424-9300 - All Calls Recorded  
In the District of Columbia (202) 483-7616

### Prepared By

Compliance Services  
1420 Seaboard Industrial Blvd.  
Atlanta, GA 30318

## Section 2. Hazards Identification

### Emergency overview

DANGER

POISON

FLAMMABLE LIQUID AND VAPOR.

\*Hazard Determination System (HDS): Health, Flammability, Reactivity



**NOTE:** MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

### Acute Effects

### Routes of Entry

Eye contact. Absorbed through skin. Inhalation. Ingestion.

**Eyes** May cause eye irritation. Inflammation of the eye is characterized by redness, watering and itching.

**Skin** May cause skin irritation. Harmful if absorbed through the skin. Toxic in contact with skin. Skin inflammation is characterized by itching, scaling, or reddening.

**Inhalation** Toxic by inhalation. Can cause central nervous system (CNS) depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

**Ingestion** Toxic if swallowed. MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED.

### Chronic effects

Contains material which may cause damage to the following organs: kidneys, lungs, liver, eyes, central nervous system (CNS), pancreas, heart and brain.

### Product/ingredient name

Not available.

Additional Information: See Toxicological Information (Section 11)

## Section 3. Composition/Information on Ingredients

METHANOL; methyl alcohol; wood alcohol; columbia spirits

67-56-1

90 - 100

## Section 4. First Aid Measures

**Eye Contact** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

**Skin Contact** Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur.

**Inhalation** Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects persist or are severe.

**Ingestion** Never give anything by mouth to an unconscious person. Drink one or two glasses of water and induce vomiting by gently touching the back of the throat with finger. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe.

**Section 5. Fire Fighting Measures**

National Fire Protection Association (U.S.A.)



<b>Flash Point</b>	Closed cup: 11.7°C (53.1°F) [Tagliabue.]
<b>Flammable Limits</b>	Lower: 6% Upper: 36%
<b>Flammability</b>	FLAMMABLE.
<b>Fire hazard</b>	Flammable liquid and vapor. Vapor may cause flash fire. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
<b>Fire-Fighting Procedures</b>	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam. Cool closed containers exposed to fire with water. Fire-fighters should wear appropriate protective equipment.

**Section 6. Accidental Release Measures**

<b>Spill Clean up</b>	Eliminate all ignition sources. Put on appropriate personal protective equipment (see section 8). Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. To clean the floor and all objects contaminated by this material, use detergent solution. Dispose of via a licensed waste disposal contractor.
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**Section 7. Handling and Storage**

<b>Handling</b>	Put on appropriate personal protective equipment (see section 8). Store and use away from heat, sparks, open flame or any other ignition source. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use only with adequate ventilation. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Wash contaminated clothing before reusing.
<b>Storage</b>	Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). Keep out of the reach of children.

**Section 8. Exposure Controls/Personal Protection****Product name**

METHANOL; methyl alcohol; wood alcohol; columbia spirits

**Exposure limits**

OSHA/ACGIH (United States).  
TWA: 200 ppm 8 hour(s).  
OSHA /ACGIH (United States).  
STEL: 250 ppm 15 minute(s).

**Personal Protective Equipment (PPE)**

<b>Eyes</b>	Recommended: Splash goggles.
<b>Body</b>	Recommended: Butyl rubber gloves. Chemical-resistant apron.
<b>Respiratory</b>	Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

**Section 9. Physical and Chemical Properties**

<b>Physical State</b>	Thin liquid	<b>Color</b>	Blue.
<b>pH</b>	Not applicable.	<b>Odor</b>	Alcohol-like. (Slight.)
<b>Boiling Point</b>	64.4°C (147.9°F)	<b>Vapor Pressure</b>	Not determined.
<b>Specific Gravity</b>	0.79 (Water = 1)	<b>Vapor Density</b>	>1 (Air = 1)
<b>Solubility</b>	Easily soluble in the following materials: cold water and hot water.	<b>Evaporation Rate</b>	>1 compared with Butyl acetate.
		<b>VOC (Consumer)</b>	797.82 (g/l). 99.9% 6.66 lb / gal

**Section 10. Stability and Reactivity**

<b>Stability and Reactivity</b>	The product is stable.
<b>Incompatibility</b>	Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.
<b>Hazardous Polymerization</b>	Will not occur.
<b>Hazardous Decomposition Products</b>	carbon oxides (CO, CO <sub>2</sub> )

**Section 11. Toxicological Information****Acute Toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Methanol	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5628 mg/kg	-
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours

**Section 12. Ecological Information**

**Environmental Effects** No known significant effects or critical hazards.

**Aquatic Ecotoxicity**



Not available.

**Section 13. Disposal Considerations****Waste Information**

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

**Waste Stream** Code: D001  
Classification: - (Hazardous waste.)  
Origin: - (RCRA waste.)

**Section 14. Transport Information**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
<b>DOT Classification</b>	UN1992	FLAMMABLE LIQUIDS, POISONOUS, N.O.S. (Methanol)	3, 6.1	II	 
<b>IMDG Class</b>	Not determined.				

**NOTE:** DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

PG\* : Packing group

**Section 15. Regulatory Information****U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:

**Product name**

Methanol

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: Methanol

All Components of this product are listed or exempt from listing on TSCA Inventory.

**State Regulations****California Prop 65****Section 16. Other Information**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

\*NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.