



ZEP MANUFACTURING COMPANY
 Acuity Specialty Products Group, Inc.
 P.O. BOX 2015
 ATLANTA, GA 30301
 1-877-1-BUY-ZEP

Material Safety Data Sheet and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name KLEAR

Product Use Windshield Washer Fluid and Antifreeze

Product Code 0629

Date of issue 08/22/03 **Supersedes** 02/02/98

This product is not a registered pesticide.

Emergency Telephone Numbers **For MSDS Information:**
 Acuity Specialty Products Group, Inc.
 Compliance Services 1-877-1-BUY-ZEP

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

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

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Prepared by Compliance Services Group
 Acuity Specialty Products Group
 1420 Seaboard Industrial Blvd.
 Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
METHANOL; methyl alcohol; wood alcohol; columbia spirits	67-56-1	90-100	OSHA/ACGIH (United States). TWA: 200 ppm OSHA /ACGIH (United States). STEL: 250 ppm

Section 3. Hazards Identification

Acute Effects **Routes of Entry** Eye contact. Absorbed through skin. Inhalation. Ingestion.

Skin Harmful if absorbed through the skin. Toxic in contact with skin.

Eyes Hazardous in case of eye contact (irritant) Inflammation of the eye is characterized by redness, watering, and itching.

Inhalation Toxic by inhalation. Can cause CNS depression. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Ingestion Toxic if swallowed. May be fatal or cause blindness if swallowed.

HMIS	
Health	3
Fire Hazard	3
Reactivity	0
Personal Protection	C

Carcinogenic Effects Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Chronic Effects The substance may be toxic to kidneys, lungs, liver, heart, peripheral nervous system, eyes, central nervous system (CNS), pancreas. Repeated or prolonged exposure to the substance can produce target organs damage.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention.

Skin Contact Wash contaminated skin with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion Drink one or two glasses of water and induce vomiting by gently touching the back of the throat with finger. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than hips to help prevent aspiration. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point CLOSED CUP: 11.7°C (53.1°F). (Tagliabue.) **Flammable Limits** LOWER: 6% UPPER: 36%

Flammability FLAMMABLE.

Fire Hazard FLAMMABLE LIQUID AND VAPOR. Vapor may cause flash fire.

Fire-Fighting Procedures Use dry chemical or CO2. Cool closed containers exposed to fire with water. Fire fighters should wear proper protective equipment.



Section 6. Accidental Release Measures


Spill Clean up Eliminate all ignition sources. Put on appropriate personal protective equipment (see Section 8). Absorb with an inert material and place in an appropriate waste disposal container. To clean the floor and all objects contaminated by this material, use detergent. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Section 7. Handling and Storage

Handling Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Keep container closed. Use only with adequate ventilation. Avoid breathing vapors or spray mists. Avoid contact with eyes, skin and clothing. Wash contaminated clothing before reusing.

Storage Store and use away from heat, sparks, open flame, or any other ignition source. Keep container tightly closed and sealed until ready for use. Keep container in a cool, well-ventilated area. Store between 40°F - 120°F. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection

	Personal Protection	Protective Clothing (Pictograms)
Eyes	Splash goggles.	
Body	Rubber gloves. (Butyl) Synthetic apron.	
Respiratory	Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Wear appropriate respirator when ventilation is inadequate.	

Section 9. Physical and Chemical Properties

Physical State	Thin liquid	Color	Blue.
pH	Not applicable.	Odor	Faint Odor
Boiling Point	64.4°C (147.9°F)	Vapor Pressure	12.8 kPa (96 mmHg) (at 20°C)
Specific Gravity	0.79 (Water = 1)	Vapor Density	>1 (Air = 1)
Solubility	Easily soluble in cold water, hot water.	Evaporation Rate	>1 compared to Butyl acetate.
		VOC (Consumer)	797.82 (g/l). (99.7%)

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Reactive with oxidizing agents, acids, alkalis.

Hazardous Polymerization Will not occur.

Hazardous Decomposition Products Carbon Dioxide and Carbon Monoxide .

Section 11. Toxicological Information

Toxicity to Animals **Methanol:**
ORAL (LD50): Acute: 5628 mg/kg [Rat]

Section 12. Ecological Information

Ecotoxicity Not available.

Biodegradable/OECD Not available.

Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.

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

Consult your local or regional authorities.

Section 14. Transport Information

Proper shipping name FLAMMABLE LIQUIDS, POISONOUS, N.O.S. (Methanol)

DOT Classification DOT Class 3: Flammable liquid. DOT Class 6.1 Poisonous material. **UN number** UN1992

Section 15. Regulatory Information

U.S. Federal Regulations SARA 313 toxic chemical notification and release reporting: Methanol
Clean Water Act (CWA) 311: No products were found.
Clean air act (CAA) 112 regulated toxic substances: Methanol

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.