

MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA
Hazard Communication Standard
29 CFR 1910.1200

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health
Administration
Form Approved OMB No. 1218-0072

PRODUCT IDENTITY: Wagner Premium Brake Fluid (H-116)
This product contains a mixture of Glycol Ethers.

SECTION I**MANUFACTURER'S NAME**

Wagner Brake Division/Wagner Electric Corporation

ADDRESS

930 Roosevelt Parkway, Chesterfield, MO 63017

DATE November 1989

EMERGENCY TELEPHONE NUMBER**TELEPHONE NUMBER**

(314) 537-8700

SECTION II - INGREDIENT INFORMATION/SECTION 313 SUPPLIER NOTIFICATION

*Identifies those listed ingredients which are subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372:

Component	Range % by Wt.	CAS Nos.	ACGIH TLV	OSHA PEL	LD ₅₀ /LC ₅₀
Diethylene glycol	20-25	111-46-6	N/E	N/E	>5.0 g/kg (oral) 11.9 ml/kg (dermal)
Diethylene glycol, mixed alkyl (C ₁ -C ₆) ethers*	15-25	Mixture	N/E	N/E	>5.0 g/kg (oral)
Triethylene glycol mono- butyl ether*	10-20	112-34-5	N/E	N/E	>5.0 g/kg (oral) 3.5 mg/kg (dermal)
Triethylene glycol, mixed alkyl (C ₁ -C ₆) ethers*	5-10	Mixture	N/E	N/E	>5.0 g/kg (oral)
Polyethylene glycol, mixed alkyl (C ₁ -C ₆) ethers	10-15	Mixture	N/E	N/E	>5.0 g/kg (oral)
Polypropylene glycols (tri- and higher)	10-20	Mixture	N/E	N/E	>5.0 g/kg (oral)
Heptyl alcohol bottoms	1-5	70955-04-3	N/E	N/E	N/D

Balance of inhibitor system in amounts less than 1%. This information must be included in all MSDSs copied and distributed for this material.

SECTION III - PHYSICAL PROPERTIES

Boiling Point: greater than 401°F	Specific Gravity: 1.025
Vapor Pressure (mm Hg): N/D	Melting Point: N/D
Vapor Density (air=1): N/D	Evaporation Rate: N/D
Solubility in Water: Soluble	Volatility: 69%
Appearance and Odor: Clear, light amber color; mild odor	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: 305°F (COC) Flammable Limits: LEL - N/D UEL - N/D
Auto Ignition Temperature: N/D
Extinguishing Media: Water spray, foam, dry chemical, carbon dioxide, halon
Special Fire-fighting Procedures: Fire fighters should wear full turnout gear and SCBA
Unusual Fire and Explosion Hazards: None known

N/D = Not Determined; N/E = Not Established

SECTION V - REACTIVITY DATA

Stable? Yes Conditions to Avoid: N/A

Incompatibility (Materials to Avoid): Oxidizing agents, strong acids, ammonium compounds, reducing agents

Hazardous Decomposition or By-products: Oxides of Carbon and Nitrogen, Sodium Monoxide

Hazardous Polymerization may occur? No Conditions to Avoid: N/A

SECTION VI - HEALTH HAZARD DATA

Primary Route of Exposure: Inhalation, eye and skin contact, ingestion

Acute Signs and Symptoms of Overexposure: Causes mild skin irritation with dry patches and redness. Eye contact will cause tearing and burning of eye. Other health effects may include nausea, burning or irritated esophagus and stomach, edema (fluid retention). May include jaundice (yellowish skin color), abdominal pain, headache, dizziness, uncoordination, confusion and unconsciousness. Ingestion may be fatal. Material can be absorbed through skin in toxic quantities.

Chronic Signs and Symptoms of Overexposure: May result in liver and kidney damage. Other health effects may include nausea, vomiting, drowsiness and fatigue.

Carcinogenicity? None known Listed in - NTP: No IARC: No

Medical Conditions Generally Aggravated by Exposure: None known

First Aid Procedures:

Eye - Hold eyelids open and flush eyes for 15 minutes with large quantities of water. Seek medical attention immediately.

Skin - Wash area with soap and water. Remove contaminated clothing. Seek medical attention.

Inhalation - Remove victim to fresh air. Restore breathing if necessary. Seek medical attention immediately.

Ingestion - If victim is conscious, give large quantities of water. Seek medical attention immediately.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Actions to take for Spills: Ventilate area. Use absorbent material and sweep or pick-up material and place in closed container.

Waste Disposal: Dispose of waste via a licensed disposal firm.

Precautions to be taken in Handling and Storage: Store in a well ventilated, cool, dry area away from oxidizing agents.

Other Precautions: None known

SECTION VIII - EMPLOYEE PROTECTION MEASURES

Ventilation: Local ventilation is preferred. General ventilation is acceptable.

Respiratory Protection: If material is airborne or become irritating, use a NIOSH/OSHA approved respirator for organic vapors and mist in accordance with the OSHA respiratory protection requirements (29 CFR 1910.134).

Eye Protection: Safety goggles

Protective Gloves: Chemical resistant

Other Protective Equipment: Coveralls

Work/Hygiene Practices: Eyewash station and safety shower should be available in areas of use. Wash thoroughly after handling product.

N/A = Not Applicable

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