

SAFETY DATA SHEET

Brake fluid



SECTION 1. Identification of the substance/mixture

PRODUCT NAME: Brake fluid
CHEMICAL NAME: Not Applicable
CAS NUMBER: See below
SYNONYMS USE: BRAKE FLUID

SECTION 2. Composition / Information on Hazardous Ingredients

Ingredient Name	CAS Number	% wt or % vol
Triethylene Glycol Monomethyl Ether	112-35-6	5 - 50
Triethylene Glycol Monoethyl Ether	112-50-5	5 - 50
Triethylene Glycol Monobutyl Ether	143-22-6	5 - 50
Tetraethylene Glycol Monobutyl Ether	1559-34-8	5 - 20
Polyethylene Glycol	25322-68-3	5 - 20
Diethylene Glycol Monobutyl Ether	112-34-5	5 - 20
Diethylene Glycol	111-46-6	5 - 15
Diethylene Glycol Monomethyl Ether	111-77-3	<5
Diethylene Glycol Monoethyl Ether	111-90-0	<5
Polyalkylene Glycol Monobutyl Ether	9004-77-7	5 - 20
Polyalkylene Glycol Monomethyl Ether	23783-42-8	5 - 20
Polyalkylene Glycols	9038-95-3	5 - 20
Trade Secret Inhibitor Package	Trade Secret	<3

SECTION 3. Hazards Identification

Emergency Overview
DANGER! MAY BE HARMFUL OR FATAL IF SWALLOWED. CAUSES EYE IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.

H	1
F	1
R	0

Potential Health Effects

Acute Effects

Inhalation: Vapors are mildly to markedly irritating to the lungs depending on the exposure level.

Eye: Causes severe irritation experienced as discomfort or pain, excess blinking and tear production, with marked excess redness and swelling of the conjunctiva.

Skin: No adverse effects expected with exposure to skin. Brief contact may cause slight irritation. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort, seen as local redness and swelling.

Ingestion: Ingestion may be fatal. May cause abdominal discomfort, nausea, and vomiting. May produce central nervous system depression and kidney damage.

Carcinogenicity: This compound contains no ingredients at concentration of 0.1% or greater that are carcinogens or suspect carcinogens.

Medical Conditions Aggravated by Long-Term Exposure: Pre-existing skin, eye, and respiratory disorders may be aggravated by exposure to this product. Impaired kidney function from pre-existing disorders may be aggravated by exposure to this product.

Chronic Effects: Repeated exposure may result in drying of the skin and mucous membranes, causing irritation and dryness.

SECTION 4. First aid measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Skin Contact: Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before reuse.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Note to Physicians: There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5. Fire fighting measures

Flash Point: >275 °F (>135°C)

Flash Point Method: CC

Burning Rate: Not Determined

Autoignition Temperature: Not Determined

LEL: Not Determined

UEL: Not Determined

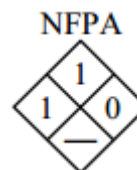
Flammability Classification: Slight to moderate fire hazard when exposed to heat or flames.

Extinguishing Media: Water fog, foam, dry chemical, carbon dioxide.

Unusual Fire or Explosion Hazards: None known.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, and unidentified organic compounds.

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways. Fire-Fighting Equipment: Wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.



SECTION 6. Accidental release measures

Spill /Leak Procedures: Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Use non-sparking tools and equipment. Do not flush to sewer.

Small Spills: Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e.g. vermiculite, dry sand) and place in a chemical waste container. Do not use combustible materials, such as sawdust.

Large Spills

Containment: Wear respirator and protective clothing as appropriate. Shut off source of leak is safe to do so. For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Cleanup: Contain and recover liquid when possible. Collect liquid in appropriate container. Absorb residue with an inert material. Consult with your environmental department for detailed clean up instructions.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

SECTION 7. Handling and storage

Handling Precautions: May be harmful or fatal if swallowed.

Storage Requirements: Store in a cool, dry, ventilated area. Separate from acids, bases, and oxidizing materials.

Regulatory Requirements: This product contains the following chemical(s) subject to the reporting requirements of SARA Title III Section 311, 312, and 313: Glycol Ethers.

SECTION 8. Exposure controls/personal protection

Engineering Controls: Controls should be such that adequate ventilation is provided. Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls: Normal industrial requirements should be in place.

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

SECTION 9. Physical and chemical properties

Physical State: Liquid

Appearance and Odor: Yellow to amber liquid with a mild odor.

Odor Threshold: Not Determined

Vapor Pressure: Not Determined

Vapor Density (Air=1): >1

Formula Weight: Mixture

Density: 8.33 to 9.02 lb/gal

Specific Gravity (H₂O=1, at 4 °C): 1.000 to 1.070

pH: 10.0 – 11.5

Water Solubility: Soluble

Other Solubilities: Not Available

Boiling Point: 480°F (248.9°C)

Freezing/Melting Point: Not Determined

Viscosity: Not Determined

Refractive Index: Not Determined

Surface Tension: Not Determined

% Volatile: Not Determined

Evaporation Rate(BuAc=1): <0.01

SECTION 10. Stability and reactivity

Stability: Brake Fluid is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization cannot occur.

Chemical Incompatibilities: None Known

Conditions to Avoid: None Known

Hazardous Decomposition Products: Thermal oxidative decomposition of Brake Fluid can produce carbon monoxide, carbon dioxide, and unknown organic compounds.

SECTION 11. Toxicological information

Toxicity Data:

Acute Inhalation Effects:

Human, inhalation, TCLo: Data not available.

Acute Oral Effects:

Rat, oral, LD50: >2000 mg/kg

Chronic Effects: Data not available.

Carcinogenicity: Not a listed carcinogen.

Mutagenicity: Data not available.

Teratogenicity: Data not available.

Eye Effects: Causes severe irritation experienced as discomfort or pain, excess blinking and tear production, with marked excess redness and swelling of the conjunctiva.

Skin Effects: No adverse effects expected with exposure to skin. Brief contact may cause slight irritation. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort, seen as local redness and swelling.

Inhalation: Vapors are mildly to markedly irritating to the lungs depending on the exposure level.

Ingestion: Ingestion may be fatal. May cause abdominal discomfort, nausea, and vomiting. May produce central nervous system depression and kidney damage.

SECTION 12. Ecological information

Ecotoxicity: Data not available.
Environmental Fate: Data not available.
Environmental Degradation: Data not available.
Soil Absorption/Mobility: Data not available.

SECTION 13. Disposal considerations

Whatever cannot be saved for recovery or recycling should be disposed of in an approved waste facility, in accordance with applicable Federal, State/Provincial and Local requirements.

SECTION 14. Transport information

Transportation Data

Shipping Name: Brake Fluid
Hazard class: Non-hazardous liquid
ID No.: Not Determined
Packing Group: Not Applicable (N/A)
Label: N/A
Special Provisions
(172.102): N/A
Shipping Symbols: N/A

Packaging
Authorizations
a) Exceptions: N/A
b) Non-bulk Packaging: N/A
c) Bulk Packaging: N/A

Quantity Limitations
a) Passenger, Aircraft, or Railcar: no limit
b) Cargo Aircraft Only: no limit

Vessel Stowage Requirements
a) Vessel Stowage: none
b) Other: none

SECTION 15. Regulatory information

EPA Regulations:
RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)
RCRA Hazardous Waste Classification (40 CFR 261): Not classified
CERCLA Hazardous Substance (40 CFR 302.4) None. However, this product contains various ethylene glycols and glycol ethers which are each included as a broad category on the CERCLA Hazardous substances list.
CERCLA Reportable Quantity (RQ) (40 CFR 302.4): None
SARA 311/312 (40 CFR 370): None
SARA 313 Toxic Chemical (40 CFR 372.65): glycol ethers
SARA 304 EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed
OSHA Regulations:
Air Contaminant (29 CFR 1910.1000, Table Z-1): Not listed
OSHA Specifically Regulated Substance (29CFR 1910): Not listed
California Prop. 65: None

*****End of MSDS*****

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