



SAFETY DATA SHEET

Street Legal DOT 4 Brake Fluid

Prepared according to U.S. OSHA, CMA, ANSI, Canadian WHMIS, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, and European Union REACH Regulations

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Street Legal DOT 4 Brake Fluid
CAS# Mixture
MANUFACTURER'S NAME: Maverick Performance Products, LLC
ADDRESS: 5950 S. Cooper Rd Ste 3 Chandler, AZ 85249 USA
EMERGENCY PHONE: 1-800-424-9300 **TOLL-FREE in USA/Canada**
BUSINESS PHONE: 1-480-621-7302 (Product Information)
WEB SITE: www.maverickoil.com
DATE OF PREPARATION: 27 February 2017
DATE OF LAST REVISION: 27 February 2017

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is a clear to amber liquid with a mild odor.

HEALTH HAZARDS: Harmful if swallowed. Causes mild skin irritation. Causes serious eye irritation. May cause damage to kidneys, liver or central nervous system if ingested.

OTHER HAZARD(S): Combustible liquid. Repeated exposure may cause dryness of the skin. Vapors may cause respiratory irritation.

PRECAUTION(S): Wear eye and skin protection before handling. Do not breathe mist/vapors/spray. Use in a well ventilated area. Wear protective gloves/protective clothing. IF IN EYES: Flush with water for 15 minutes and consult a physician. Do not ingest. IF SWALLOWED: Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

DISPOSAL: Keep out of waterways. Check local, national, and international regulations for proper disposal

US DOT SYMBOLS



Signal Word: **Warning!**

GHS Hazard Classification(s):

Skin Irritation Category 2

Eye Irritation Category 2A

Hazard Statement(s):

H320: Causes eye irritation

H315: Causes skin irritation

Risk Phrases:

R36/38: Irritating to eyes and skin

CANADA (WHMIS) SYMBOLS

Not Controlled

EUROPEAN and (GHS) Hazard Symbols



Signal Word: **Warning!**

Acute Toxicity, Oral Category 4*

Target Organ Toxicity, Acute Category 2

Precautionary Statement(s):

P264: Wash hands thoroughly after handling

P280: Wear protective gloves/protective clothing/eye protection/face protection

Safety Phrases:

S24/25: Avoid contact with skin and eyes

S37/39: Wear suitable gloves and eye/face protection

TARGET ORGANS:

Kidney, Liver, Central Nervous System

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SECTION 3 - COMPOSITION and INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS:	CAS #			WT %	
Triethylene Glycol Monomethyl Borate Ester	71243-41-9			20-40	
Butoxytriglycol	143-22-6			40-60	
Diethylene Glycol	111-46-6			20-40	
Triethylene Glycol	112-27-6			0-5	
Triethylene Glycol Monomethyl Ether	112-35-6			0-5	
Polyethylene Glycol Monomethyl Ether	9004-74-4			0-5	
Additives	Proprietary			<2	

SECTION 4 - FIRST-AID MEASURES

EYE CONTACT: Remove contact lenses, if worn. Rinse with running water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.

SKIN CONTACT: Remove affected clothing and laundry before reuse. Wash affected area for at least 15 minutes with soap and running water. Prolonged or repeated exposure may cause defatting of the skin – symptoms include redness, dryness, cracking

INHALATION: Remove exposed person to fresh air immediately. Restore or assist breathing, if necessary. Get medical attention immediately if symptoms of CNS depression or intoxication develop.

INGESTION: Do NOT induce vomiting. If conscious, give two full glasses of water. If a significant volume has been swallowed, get medical attention immediately. Swallowing large amounts of diethylene glycol is potentially lethal. Immediate symptoms may include severe abdominal cramping, diarrhea, vomiting, intoxication, and hypertension. Infrequent urination and other cardiac, neurological, and renal effects of metabolic acidosis, hyponatremia, or hyperkalemia may develop. Diethylene glycol has been known to cause metabolic acidosis leading to kidney and liver failure, neurological complication, and death.

ADDITIONAL INFO: Note to physician: Treat for diethylene glycol poisoning

SPECIFIC TREATMENTS: Not Determined

SECTION 5 - FIRE-FIGHTING MEASURES

FLASH POINT: >121°C (249°F) based on most flammable component

AUTOIGNITION TEMPERATURE: Not Established

FLAMMABLE LIMITS (in air by volume, %): Lower Not Available Upper (UEL): Not Available
(LEL):

FIRE EXTINGUISHING MATERIALS: For small fires use alcohol foam, dry chemical or CO2. For large fires apply large (flooding) quantities of water from as far away as possible in a spray or mist.

UNSUITABLE MEDIA: Water jet may be ineffective

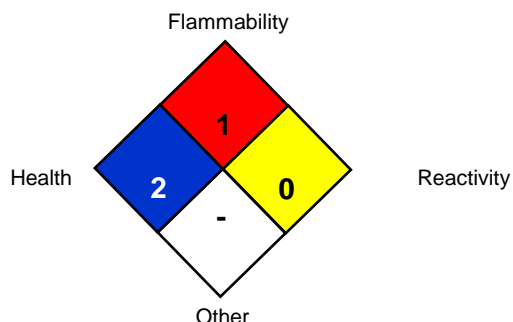
UNUSUAL HAZARDS: Not Determined

SPECIAL FIRE-FIGHTING PROCEDURES: Wear a self-container breathing apparatus if necessary based on the concentrations of smoke. Material will produce primarily oxides of carbon as combustion products.

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NFPA RATING SYSTEM



HMIS RATING SYSTEM

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD (BLUE)			2
FLAMMABILITY HAZARD (RED)			1
PHYSICAL HAZARD (YELLOW)			0
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	See Sect 8		See Sect 8
For Routine Industrial Use and Handling Applications			

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES: Ventilate if release in a confined area. Avoid breathing mists/vapors/spray. Product may present slipping hazard if left on the floor. Beware of vapors pooling in low areas to explosive concentrations.

ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment. Prevent from entering into soil, ditches, sewers, waterways or groundwater.

METHODS FOR REMOVAL: Use an explosion-proof pump to remove bulk liquid. Residual liquid can be absorbed on inert material. Dispose of contaminated adsorbent as hazardous waste. Wash the area with water after excess product and adsorbent is removed.

Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

SECTION 7 - HANDLING and STORAGE

MAX. HANDLING TEMP: Not Determined

MAX. STORE TEMP: Do not store or handle at elevated temperatures.

PROCEDURES: Use in a well-ventilated area. Avoid breathing mists/vapors/spray. Avoid handling hot product where possible. Use appropriate personal protective equipment to avoid contact with skin and eyes. Note the location of nearest emergency shower and eye wash station before use. Store with the lid tightly closed in a cool, dry, well-ventilated place. Product is hygroscopic, and effectiveness may diminish if opened products is stored for long periods of time. Dispose of spilled or used material in accordance with local, regional, national, and international regulations.

SECTION 8 - EXPOSURE CONTROLS - PERSONAL PROTECTION

EXPOSURE LIMITS/GUIDELINES:

Chemical Name	CAS#	ACGIH TWA	OSHA TWA	NIOSH TWA
Diethylene Glycol	111-46-6	-	10 mg/m ³	-

Other Exposure Limits: Not Determined

ENGINEERING CONTROLS: Use in a well ventilated area. Local and general ventilation should keep methanol vapor concentration below permissible limits. Where exposure potential exceeds recommended limits, use a NIOSH/OSHA approved supplied air respirator as recommended. Vapors are heavier than air and will tend to accumulate in low-lying areas.

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RESPIRATORY PROTECTION: Use a NIOSH or CEN approved full-face respirator with multi-purpose combination or type ABEK respirator cartridges as a backup to engineering controls. If the respiratory is the only means of protection, use a full-face supplied air respirator.

EYE PROTECTION: Use tightly-fitting chemical splash goggles. Use face shield, especially where splashing is likely to occur.

HAND PROTECTION: Use nitrile, butyl, viton, or fluoroelastomer gloves. Even appropriate materials may degrade after prolonged exposure with product.

BODY PROTECTION: Use chemical resistant pants and jackets, preferably of butyl or nitrile rubber.

OTHER: Locate the nearest eyewash station and safety shower before handling this product. Limit exposure whenever possible.

HYGIENE: Wash thoroughly after handling this product.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL STATE:	Clear to amber Liquid
APPEARANCE & ODOR:	Clear to amber, mild odor
ODOR THRESHOLD (PPM):	Not Determined
VAPOR PRESSURE (mmHg):	0.09 hPa (0.07 mmHG) @20° (68°F)
VAPOR DENSITY (AIR=1):	>5
EVAPORATION RATE (nBuAc = 1):	No Data Available
FLASH POINT	121°C (250°F)
MELTING POINT (C°):	<-50°C (-58°F)
pH:	7-11
VISCOSITY:	2 mm/s2 @ 100°C
KINEMATIC VISCOSITY:	Not Data Available
DENSITY:	1.06 mg/cu. Cm @15.6 °C
SOLUBILITY IN WATER (%):	Miscible in water, alcohol; sparingly soluble in some organic solvents
BOILING POINT (C°):	>232°C (449°F)

SECTION 10 - STABILITY and REACTIVITY

STABILITY: Material is normally stable at ambient temperatures and pressures.

DECOMPOSITION TEMP: Not determined

INCOMPATIBLE MATERIALS: Keep away from strong oxidizers and strong acids/bases. Keep away from zinc or other active metals.

THERMAL DECOMPOSITION: Primarily oxidizes to carbon dioxide in normal combustion conditions. In lower oxygen environments carbon monoxide, formaldehyde, or formic acid may be formed.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Vapors may catch fire – keep away from strong oxidizers, acids, bases as well as heat/sparks/open flames/hot surfaces.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE EXPOSURE

EYE IRRITATION: Expected to cause mild to moderate irritation of the eye if exposed to liquid or in high vapor concentrations. May cause irritation, tearing, or burning of the eyes.

SKIN IRRITATION: Expected to be mildly irritating to the skin. Symptoms of irritation may include redness, drying, and cracking of the skin.

RESPIRATORY IRRITATION: High vapor concentrations may cause transient irritation to the respiratory system.

DERMAL TOXICITY: This product can be absorbed through the skin but is a low order of toxicity. Limit exposure to skin where possible.

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INHALATION TOXICITY: Toxicity is similar to that for oral ingestion, through this exposure mode is far less likely to occur.

ORAL TOXICITY: Toxic or fatal if ingested. Symptoms of diethylene glycol poisoning include severe abdominal cramping, diarrhea, vomiting, sweating, confusion, cardiac abnormalities, neurological abnormalities, infrequent urination, intoxication or CNS depression. If left untreated, product will metabolize to cause metabolic acidosis, renal failure, hyperkalemia, hyponatremia, paralysis, cardiac failure, or death. Seek medical attention immediately for poisoning. If ingested, DO NOT wait for symptoms to develop before getting treatment.

ASPIRATION HAZARD: This product has a very low viscosity and may be fatal if aspirated into the airways. Do NOT induce vomiting, as this increases risk of aspiration.

CHRONIC EXPOSURE

CHRONIC TOXICITY: This product may cause dryness or defatting of the skin, dermatitis, or may aggravate existing skin conditions.

CARCINOGENICITY: This product and its components are NOT listed by the IARC, NTP, ACGIH, or OSHA as carcinogens.

MUTAGENICITY: Available information does not suggest that this product is a germ cell mutagen.

REPRODUCTIVE TOXICITY: Available information does not suggest that this product is a reproductive toxin.

TERATOGENICITY: Diethylene glycol has produced birth defects in rats at concentrations that are toxic to the mother.

ADDITIONAL INFORMATION

TARGET ORGAN TOXICITY: Product is toxic to organs: Kidney's liver, central nervous system, hear. Metabolic products of diethylene glycol produce acidosis and organ toxicity effects. In some cases other, metabolic abnormalities have been reported such as hyponatremia and hyperkalemia leading to nerve and cardiac damage.

SYNERGISTIC EFFECTS: Though specific data is not available, ethanol is a competing substrate for NAD-dependent alcohol dehydrogenase and may slow the product of harmful metabolic products diethylene glycol.

PHARMACOKINETICS: No data available.

SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL TOXICITY

FRESHWATER FISH: Acute LD50 > 590 mg/L (96h)

FRESHWATER INVERTEBRATES: Acute LD50 > 10g/l (48h)

ALGAE: Not determined

SALTWATER FISH: Not determined

SALTWATER INVERTEBRATES: Not determined

BACTERIA: Not determined

MISCELLANEOUS: Not determined

ENVIRONMENTAL FATE

BIODEGRADATION: No data available. Expected to biodegrade rapidly and degrade by photo-oxidative reactions with the air

BIOACCUMULATION: Product is very mobile in soil and water and is somewhat volatile – it is not expected to bioaccumulate.

SOIL MOBILITY: Product has a high mobility in soil, slowly evaporates at environmentally relevant temperatures.

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OTHER EFFECTS: Not determined.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS: All disposal practices must be in accordance with local, regional, national, and international regulations. Store material for disposal as indicated in Section 7. Disposal by controlled incineration or by secure land fill may be acceptable-review applicable regulations or regulatory bodies before making disposal decisions.

CONTAMINATED CONTAINERS OR PACKAGING: Empty containers are likely to contain flammable vapors or explosive mixtures of vapor and air. Do NOT weld, cut, or grind empty containers. Rinse empty containers with water and dispose of in accordance with local, regional, national and international regulations.

SECTION 14 - TRANSPORTATION INFORMATION

Description shown may not apply to all shipping situations. Consult applicable shipping codes to determine any additional shipping requirements.

DOT: Not dangerous goods

ICAO/IATA: Not dangerous goods

IMDG: Not dangerous goods

SECTION 15 - REGULATORY INFORMATION

GLOBAL CHEMICAL INVENTORIES/REGULATIONS

USA: All components of this material are on the US TSCA

OTHER TSCA REG.: None known

EU: Components of this product and similar mixtures are registered under REACH. Consult the European Chemicals Agency regarding REACH registration, reporting, and other legal requirements for methanol solutions before importing to the EU.

NEW ZEALAND: May require notification before sale under New Zealand Regulations

CANADA: All components of this product are listed on the Canadian Domestic Substances List (DSL)

CANADA WHMIS: B3

OTHER U.S. FEDERAL REGULATIONS

SARA EXT. HAZ. SUBST.: No components listed as Extremely Hazardous Substances list. See 40 CFR 355

SARA SECT 313: Triethylene glycol monomethyl ether (CAS # 143-22-6), triethylene glycol monomethyl ether (CAS # 112-35-6), nitrate compounds (EPA ID #N544) and diethanolamine (CAS # 111-42-4) are subject to reporting under SARA Title III, Section 313. See 40 CFR 372

SARA 311/312 Class: Acute Hazard – YES

Chronic Hazard – YES

Fire Hazard – YES

Reactivity Hazard – NO

CERCLA HAZ. SUB: No components listed. See 40 CFR 302

STATE REGULATIONS

CA PROP 65: WARNING: This product contains diethanolamine known to the State of California to cause cancer and ethylene glycol monomethyl ether, which is known to the State of California to cause birth defects or other reproductive harm.

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U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Rhode Island	Pennsylvania
Triethylene glycol monobutyl ether	X		X
CAS # 143-22-6			
Triethylene glycol monomethyl borate ester			
CAS # 71243-41-9	X		X
Triethylene glycol monomethyl ether	X		X
CAS # 112-35-6			
Tetraethylene glycol	X		X
CAS # 112-60-7			
Diethylene glycol	X		
CAS # 111-46-6			
Diethanolamine	X		
CAS # 111-42-2			
Nitrate Compounds	X	X	X
CAS 141-43-5			

SECTION 16 - OTHER INFORMATION

2/27/2017 – SDS was created

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