

DOT 3 BRAKE FLUID

80-3416
& 80-3417

HMIS RATING	
Health	2
Flammability	1
Reactivity	0

MATERIAL SAFETY DATA SHEET

NFPA 704 RATING	
Health	2
Flammability	1
Reactivity	0

NFPA 30B LEVEL	
NA	

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1. PRODUCT IDENTIFICATION

PART NUMBER..... 80-3416 & 80-3417
PRODUCT NAME DOT 3 Brake Fluid
CHEMICAL FAMILY..... Glycol Ether

2. HAZARDOUS INGREDIENTS

SPECIFIC CHEMICAL IDENTITY, COMMON NAMES	OSHA PEL	ACGIH TLV	STEL	%
Various Ethylene glycols & glycol ethers	N/L	N/L	N/L	-

All chemical compounds marked with an asterisk (*) are toxic chemicals subject to the reporting of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372. You must notify each person to whom this mixture of trade name product is sold. This statement must not be detached. Any copy or redistribution of this Material Safety Data Sheet shall include this statement.

3. PHYSICAL DATA

BOILING POINT (RANGE).....450 deg F
VAPOR PRESSURE PSIG N/D
VAPOR DENSITY (AIR = 1) N/D
SOLUBILITY IN WATER..... Soluble
SPECIFIC GRAVITY (H₂O = 1)..... 1.000-1.070 @ 4 C
MELTING/FREEZING POINT..... -58 deg F (-50 deg C)
EVAPORATION RATE (Butyl=1) <0.01
VOC content (by weight) 0 (CARB Method 310)
APPEARANCE AND ODOR..... Clear, yellow to amber colloidal liquid. Mild odor.
pH Value..... 10 - 11.5

4. FIRE AND EXPLOSION DATA

FLASH POINT >135 C (>275 deg F)
UPPER EXPLOSIVE LIMIT (%) N/D
LOWER EXPLOSIVE LIMIT (%) N/D
EXTINGUISHING MEDIA..... Water fog, carbon dioxide, foam, dry chemical. Do not use straight water streams.
SPECIAL FIREFIGHTING PROCEDURES..... Wear approved positive pressure self contained breathing apparatus and protective clothing. Fight from a maximum distance or use unmanned hose holders or monitor nozzles.
FIRE AND EXPLOSION HAZARDS..... Carbon dioxide. Carbon monoxide. Unidentified organic compounds.

5. HEALTH EFFECTS DATA

SHORT TERM EFFECTS OF EXPOSURE

ROUTE OF ENTRY..... Eye, skin, ingestion and inhalation
HEALTH HAZARDS

(ACUTE AND CHRONIC) ... Danger: May be fatal if swallowed. This material is an eye irritant. May cause allergic skin reaction. Vapors are mildly to markedly irritating to the lungs depending on the exposure level. Ingestion may cause abdominal discomfort, nausea and vomiting. May produce CNS depression and kidney damage.

MEDICAL CONDITIONS GENERALLY

AGGRAVATED BY EXPOSURE..... May produce central nervous system depression and kidney damage.

FIRST AID PROCEDURES

EYES:..... Flush eyes with plenty of water for at least 15 minutes and get medical attention.
SKIN CONTACT:..... Wash with soap and water. Remove contaminated clothing and shoes and launder before reuse. Get medical attention if irritation persists.

5. HEALTH EFFECTS DATA (Cont'd)

INGESTION:..... Induce vomiting as directed by medical personnel.
INHALATION:..... Remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. If breathing is difficult give oxygen. Get medical attention.

SPECIAL HEALTH EFFECTS

CARCINOGEN (OSHA Guidelines)..... Not Listed

6. REACTIVITY

STABILITY..... Stable
INCOMPATIBILITIES..... Keep away from heat, sparks and flame. Avoid contact with acidic, basic, or oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS..... Carbon monoxide, carbon dioxide, unknown organic compounds.
HAZARDOUS POLYMERIZATION..... WILL NOT OCCUR
HAZARDOUS POLYMERIZATION CONDITIONS..... N/A

7. PRECAUTIONS FOR SAFE HANDLING & USE

PROTECTIVE EQUIPMENT REQUIREMENTS..... None
EYE PROTECTION..... Where splashing is possible, wear safety glasses with side shields as a good safety practice.
VENTILATION Use in a well ventilated area.
PROTECTIVE GLOVES..... Where gloves of rubber, neoprene or vinyl.
RESPIRATORY No respiratory protection is normally required. For air purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.
SPILL OR LEAK PROCEDURES Report spills to local authorities.
WASTE DISPOSAL METHODS Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations.
HANDLING & STORAGE..... Do not swallow. Store in cool, dry place. Keep container closed when not in use to prevent contact with acidic, basic or oxidizing materials.

8. ADDITIONAL INFORMATION

US DOT Proper Shipping Name: Not regulated

Hazard Class: Not regulated

UN No: N/A Packing Group: N/A

IARC, NTP, OSHA, Prop 65, SARA 313: Not Listed

New Jersey Right to Know List: Substance #2265

Use self-contained breathing apparatus if TLV limits are exceeded. Do not eat or smoke while using. Wash hands after use. Use positive pressure air supplied respirator if there is potential for uncontrolled release, if exposure levels are unknown, or in any circumstance where air purifying respirators may not provide adequate protection.

THE INFORMATION GIVEN AND THE RECOMMENDATIONS MADE HEREIN APPLY TO OUR PRODUCT(S) ALONE AND ARE NOT COMBINED WITH OTHER PRODUCTS. SUCH INFORMATION IS BASED UPON OUR RESEARCH AND ON DATA FROM OTHER RELIABLE SOURCES AND IS BELIEVED TO BE ACCURATE. NO GUARANTEE OF ACCURACY IS MADE. IT IS THE PURCHASER'S RESPONSIBILITY BEFORE USING ANY PRODUCT TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS AND TO DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PURPOSES.

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