MATERIAL SAFETY DATA SHEET

Trade Name: NAPA DOT 4 Brake Fluid
Chemical Family: Glycol Ethers and Alkyl Ethers
Synonyms: Dow 460 Brake Fluid
Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300 During normal business hours CST 817-645-6088.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Supplier: NAPA, P. O. Box 421268, Indianapolis, IN 46241

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient/CAS No.</th>
<th>wt. %</th>
<th>OSHA PEL TWA</th>
<th>OSHA PEL Ceiling Limits</th>
<th>ACGIH TLV TWA</th>
<th>ACGIH TLW STEL</th>
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</thead>
<tbody>
<tr>
<td>Alkyl Ester</td>
<td>30-50</td>
<td>Not Determined</td>
<td>Not Determined</td>
<td>Not Determined</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Triethylene glycol monobutyl ether 143-22-6</td>
<td>10-40</td>
<td>None Known</td>
<td>None Known</td>
<td>None Known</td>
<td>None Known</td>
</tr>
<tr>
<td>Triethylene glycol monomethyl ether 112-35-6</td>
<td>0-20</td>
<td>None Known</td>
<td>None Known</td>
<td>None Known</td>
<td>None Known</td>
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<tr>
<td>Polyethylene glycol monomethyl ether 9004-74-4</td>
<td>0-20</td>
<td>None Known</td>
<td>None Known</td>
<td>None Known</td>
<td>None Known</td>
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<tr>
<td>Polyethylene glycol monobutyl ether 9004-77-7</td>
<td>0-20</td>
<td>None Known</td>
<td>None Known</td>
<td>None Known</td>
<td>None Known</td>
</tr>
<tr>
<td>Poly(ethylene oxide) 25322-68-3</td>
<td>5-15</td>
<td>2 mg/m3</td>
<td>Not Determined</td>
<td>2 mg/m3</td>
<td>Not Determined</td>
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<tr>
<td>Inhibitor Package proprietary</td>
<td>1-3</td>
<td>Not Determined</td>
<td>Not Determined</td>
<td>Not Determined</td>
<td>Not Determined</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Emergency Overview: This material is irritating to skin, eyes and mucous membranes. Absorption through skin or inhalation of heated vapor and mist may result in central nervous system and adverse reproductive effects. Animal studies indicate high doses may cause adverse reproductive effects.

HMIS Classification: Health: 2 Flammability: 1 Physical Hazard: 0
NFPA Rating: Health: 2 Flammability: 1 Reactivity: 0

4. FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Seek medical attention if irritation persists.

Ingestion: If swallowed, induce vomiting immediately by giving two glasses of water and sticking fingers down throat; never give anything to an unconscious person. Get medical attention.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention. Vapors or mists from this material can irritate the nose, throat and lungs, and cause signs and symptoms of central nervous system depression, depending on the concentration and duration of exposure.

Skin Contact: Remove contaminated clothing and shoes, and launder before reuse. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention.

5. FIRE FIGHTING MEASURES

Flammable Properties
Flash Point °F(°C): 135 C. (275 F.)
Flash Point Method: PMCC
Flammable Limits in Air - Lower (%): Not Determined
Flammable Limits in Air - Upper (%): Not Determined
Autoignition Temperature °F(°C): Not Determined

Protection Of Fire-Fighters:
Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing.
Aerosol Comments: Not Applicable
6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact.

Spill Procedures: Avoid all sources of ignition; heat, sparks and open flames. Contain any liquid from leaking containers. Wear protective equipment specified. Ventilate spill area. Soak up material with absorbent and place in chemical waste container. If clean-up is not immediate, cover spill with plastic or canvas to keep dry.

Environmental Precautions: Do not allow to enter sanitary drains, sewer or surface and subsurface waters.

7. HANDLING AND STORAGE

Handling and Storage: Do Not Swallow. Store in a cool, dry place. Use only in a well ventilated area. Keep container closed when not in use to prevent contact with acidic, basic or oxidizing materials. Avoid open heating or agitation, this may generate vapors or mists.

8. EXPOSURE CONTROLS/PERSOAL PROTECTION


Skin Protection: Avoid skin contact. Wear protective clothing and gloves. Rubber, Neoprene or Vinyl. Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking and when leaving work.

Respiratory Protection: An approved respirator (i.e. NIOSH, etc.) should be worn when exposures are expected to exceed the applicable limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Transparent pale yellow

Odor: MILD, ETHEREAL

pH Value: Not Applicable

Vapor Pressure: <0.01 mm Hg @ 20°C

Vapor Density (Air=1): 9

Boiling Point (°F): >200°C (>392°F)

Melting/Freezing Point: Pour Point -59°C (-75°F)

Solubility in Water: <0.5%

Bulk Density at 20°C: Not Determined

Molecular Weight: Mixture

Evaporation Rate: <0.01 (Butyl Acetate = 1)

Viscosity: Not Determined.

Specific Gravity (H2O=1): 1.047 20°C/20°C

VOC Content(%): 0.5 wt%

Decomposition Temperature: Not Known

10. STABILITY AND REACTIVITY

Chemical Stability: STABLE.

Conditions to Avoid: Keep away from heat, sparks and flame. Avoid open heating or agitation, this may generate vapors or mists.

Materials to Avoid: Contact with oxidizing agents. May form peroxides if in contact with air for long periods and these can explode spontaneously or when heated.

Hazardous Decomposition Products: Oxides of carbon and nitrogen

Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

<table>
<thead>
<tr>
<th>Ingredient/CAS No.</th>
<th>wt. %</th>
<th>Route</th>
<th>Species</th>
<th>Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkyl Ester proprietary</td>
<td>30-50</td>
<td>Inhalation</td>
<td>Rats</td>
<td>Not known.</td>
</tr>
<tr>
<td>Triethylene glycol monobutyl ether 143-22-6</td>
<td>10-40</td>
<td>Oral</td>
<td>Rats</td>
<td>LD50 5300 mg/kg</td>
</tr>
<tr>
<td>Triethylene glycol monomethyl ether 112-35-6</td>
<td>0-20</td>
<td>Oral</td>
<td>Rats</td>
<td>LD50 11300 uL/kg</td>
</tr>
<tr>
<td>Polyethylene glycol monomethyl ether 9004-74-4</td>
<td>0-20</td>
<td>Oral</td>
<td>Rats</td>
<td>LD50 39800 uL/kg</td>
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<tr>
<td>Polyethylene glycol monobutyl ether 9004-77-7</td>
<td>0-20</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Poly(ethylene oxide) 25322-68-3</td>
<td>5-15</td>
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<td>Rats</td>
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<td>1-3</td>
<td>Inhalation</td>
<td>Rats</td>
<td>Not known.</td>
</tr>
</tbody>
</table>

Carcinogenicity:

| Ingredient/CAS No. | wt. % | IARC | NTP | OSHA |

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Some minor components have been shown not to interfere with reproduction, although slightly toxic to the offspring or decreased pup weights were observed in the animal studies. This substance appears to be of low toxicity, except for possible mild irritant effects in humans. A high dose may produce central nervous system depression, but there are no reports of adverse health effects from occupational exposure.

12. ECOLOGICAL INFORMATION

Low to moderate toxicity is expected to aquatic and terrestrial organisms. There is limited information available on environmental fate and effects. Due caution should be exercised to avoid the accidental release of this material to aquatic and terrestrial environments. This mixture is not expected to bioconcentrate in significant amounts.

14. TRANSPORTATION INFORMATION

U.S. DOT:
- Proper Shipping Name: Not Applicable
- Hazard Class: Not Regulated
- UN/NA Number: Not Applicable
- DOT Packing Group: Not Applicable

IMDG:
- Proper Shipping Name: Not Applicable
- Hazard Class: Not Regulated
- Hazard Subclass: Not Applicable
- UN No.: Not Applicable
- Packing Group: Not Applicable
- Marine Pollutant: No

15. REGULATORY INFORMATION

US Federal Regulations:

<table>
<thead>
<tr>
<th>Ingredient/CAS No.</th>
<th>wt. %</th>
<th>SARA 313</th>
<th>SARA 302</th>
<th>RQ</th>
<th>TPQ</th>
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<tr>
<td>Alkyl Ester proprietary</td>
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<td>NA</td>
<td>NA</td>
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<td>Listed</td>
<td>Not Listed</td>
<td>NA</td>
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No specific component of this material is listed as a Hazardous Substance CERCLA (40 CFR 261). However, this product contains various ethylene glycols and glycol ethers which are each included as a broad category on the CERCLA Hazardous substances list.

**SARA 311/312 Hazard Categories:**
- Immediate Health: Yes
- Delayed Health: Yes
- Fire: No
- Reactive: No
- Pressure: No.

**State Regulations:**

<table>
<thead>
<tr>
<th>Ingredient/CAS No.</th>
<th>wt. %</th>
<th>California Prop. 65 Cancer list</th>
<th>California Prop. 65 Developmental Toxicity</th>
<th>California Prop. 65 Reproductive Female</th>
<th>California Prop. 65 Reproductive Male</th>
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<tbody>
<tr>
<td>Alkyl Ester proprietary</td>
<td>30-50</td>
<td>Not Listed</td>
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**U.S. TSCA:**
The components of this product are listed on the TSCA Inventory.

This product contains the following chemical known to the State of California to cause birth defects and/or other reproductive harm: Ethylene glycol monomethyl ether (cas#109-86-4; Present at less than 0.01%).

16. **OTHER INFORMATION**

General Notes:

Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system.

Disclaimer:

The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

1. **CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

<table>
<thead>
<tr>
<th>Trade Name:</th>
<th>NAPA DOT 4 Brake Fluid 12 Oz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Family:</td>
<td>Glycol Ethers and Alkyl Ethers</td>
</tr>
<tr>
<td>Synonyms:</td>
<td>Dow 460 Brake Fluid</td>
</tr>
<tr>
<td>Emergency Telephone (24 hr.):</td>
<td>CHEMTREC 1-800-424-9300 During normal business hours CST 817-645-6088.</td>
</tr>
</tbody>
</table>

Supplier:

Zak Products, 3006 Skyway Circle South, Irving, TX 75038

1. **CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

| Trade Name: | NAPA DOT 4 Brake Fluid 12 Oz |

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MATERIAL SAFETY DATA SHEET

Trade Name: NAPA DOT 4 Brake Fluid

Chemical Family: Glycol Ethers and Alkyl Ethers

Synonyms: Dow 460 Brake Fluid

Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300 During normal business hours CST 817-645-6088.

Supplier: Conoco Phillips, Houston, TX 77079

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: NAPA DOT 4 Brake Fluid 12 Oz

Chemical Family: Glycol Ethers and Alkyl Ethers

Synonyms: Dow 460 Brake Fluid

Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300 During normal business hours CST 817-645-6088.

Supplier: The Heartland, P.O. Box 1520, Wheaton, IL 60189

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: NAPA DOT 4 Brake Fluid 12 Oz

Chemical Family: Glycol Ethers and Alkyl Ethers

Synonyms: Dow 460 Brake Fluid

Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300 During normal business hours CST 817-645-6088.

Supplier: Santech, 2450 Handley Ederville Rd., Fort Worth, TX 76118

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: NAPA DOT 4 Brake Fluid 12 Oz

Chemical Family: Glycol Ethers and Alkyl Ethers

Synonyms: Dow 460 Brake Fluid

Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300 During normal business hours CST 817-645-6088.

Supplier: Cyclo Industries, 10190 Riverside Drive, Palm Beach Gardens, FL 33410-4881

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: NAPA DOT 4 Brake Fluid 12 Oz

Chemical Family: Glycol Ethers and Alkyl Ethers

Synonyms: Dow 460 Brake Fluid

Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300 During normal business hours CST 817-645-6088.

Supplier: Warren Oil Co., Highway 301 N, Dunn, NC 28334

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: NAPA DOT 4 Brake Fluid 12 Oz

Chemical Family: Glycol Ethers and Alkyl Ethers

Synonyms: Dow 460 Brake Fluid

Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300 During normal business hours CST 817-645-6088.

Supplier: Bowes Seal Fast, Indianapolis, IN 46218

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<th>NAPA DOT 4 Brake Fluid 12 Oz</th>
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<td>CHEMTREC 1-800-424-9300 During normal business hours CST 817-645-6088.</td>
</tr>
<tr>
<td>Supplier:</td>
<td>Master Corporation, Memphis, TN 38138</td>
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<td>CHEMTREC 1-800-424-9300 During normal business hours CST 817-645-6088.</td>
</tr>
<tr>
<td>Supplier:</td>
<td>AGCO Parts, 1500 North Raddant Road, Batavia, IL 60510</td>
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<thead>
<tr>
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<tr>
<td>Synonyms:</td>
<td>Dow 460 Brake Fluid</td>
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<tr>
<td>Emergency Telephone (24 hr.):</td>
<td>CHEMTREC 1-800-424-9300 During normal business hours CST 817-645-6088.</td>
</tr>
<tr>
<td>Supplier:</td>
<td>Kar Products, P.O. Box 6908, Cleveland, OH 44101</td>
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