

# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Brand Name:** National  
**Product Name(s):** Brake Fluid  
**Manufacturer:** Pinnacle Oil, Inc.  
**Address:** 5009 W. 81st Street  
**State:** IN  
**Phone:** (800) 829-8899  
**Emergency Number:** (800) 829-8899  
**City:** Indianapolis  
**Zip:** 46268  
**Fax:** (317) 875-0889

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component Name:</u>	<u>CAS#:</u>	<u>% Volume:</u>	<u>ACGIH TLV</u>	<u>ACGIH STEL</u>	<u>OSHA PEL</u>
Diethylene Glycol Monopropyl ether	6881-94-3	5-10	not available	not available	not available
Polypropylene Glycol	25322-69-4	5-10	not available	not available	not available
Tripropylene Glycol	24800-44-0	15-20	not available	not available	not available
Triethylene Glycol Monobutyl ether	143-22-6	15-25	not available	not available	not available
Diethylene Glycol Monobutyl ether	112-34-5	15-35	not available	not available	not available
Diethylene Glycol	111-46-6	<10	not available	not available	not available

The base oil for this product can be a mixture of any of the following highly refined petroleum streams:

**Note:** State, local, or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

## 3. HAZARDS IDENTIFICATION *Potential Health Effects*

**Emergency Overview:** Avoid contact with strong oxidizing agents and temperatures in excess of 300C. Contact with eyes could cause irritation. Prolonged contact with skin could result in irritation. Large doses by ingestion could be fatal.

**Eye:** Low hazard for usual handling. Contact with eyes could cause irritation.

**Skin:** Low hazard with usual handling. Prolonged contact with skin could result in irritation.

**Ingestion:** Oral induction can cause kidney and liver injury. Large doses could be fatal.

**Inhalation:** No information available. Studies by other exposure routes suggest a low degree of toxicity by inhalation.

**Chronic Effects:** Oral induction can cause kidney and liver injury. Large doses could be fatal.

**Potential Environmental Effects:** See Ecological Information, See Section 12.

## 4. FIRST AID MEASURES

**Eye:** Any material that contacts the eye should be washed out immediately and medical attention obtained if any symptoms are present after washing.

**Skin:** Wash hands with soap and water and consult medical personnel.

**Inhalation:** Remove to fresh air and consult medical personnel.

**Ingestion:** Give two glasses of water and consult medical personnel.

Note to  
Physicians:

## **5. FIRE FIGHTING MEASURES**

**Flash Point:** 270 F TOC      **LEL/UEL %** No Data      **Auto Igniton Temperature:** No Data  
**OSHA Flammability Class:** Not applicable  
**Extinguishing Media:** Dry chemical, CO2, foam, or water fog.  
**Fire Fighting Instructions:** Wear self-contained breathing appartus with full facepiece and protective clothing.  
**Fire and Explosion Hazards:** No unusual fire and explosion hazards are known.

## **6. ACCIDENTIAL RELEASE MEASURES**

**Accidental Release Measures:** Steps to be taken in case material is released or spilled: Small spills may be collected with absorbent materials. For larger spills, flush area with water spray. Prevent runoff from entering drains, sewers, or streams.

## **7. HANDLING AND STORAGE**

**Handling:** Avoid contact with strong oxidizing agents and temperatures in excess of 300C.  
**Storage:** Since emptied containers retain product residue, follow product label warnings even after container is emptied.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** An eye bath should be available.  
**Other Protective Equipment:** Wear safety glasses with side shields or goggles. A face shield is recommended.  
**Eye/Face:** Wear safety glasses with side shields or goggles. A face shield is recommended.  
**Skin:** Wash thoroughly after handling to minimize skin contact.  
**Respiratory:** If respiratory protection is needed, an appropriate NIOSH-approved respirator for organic vapor should be worn.  
**General Hygiene Considerations:** Good hygiene practice should be followed which includes minimizing skin contact.  
**Exposure Guidelines:** See Section 2, Composition/Information on Ingredients.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**NOTE: Unless otherwise stated, values are determined at 20C(68F) and 760mm Hg(1 atm)**

<b>Appearance:</b>	Clear, amber with slight etheric odor	<b>Solubility in Water:</b>	Not Soluble		
<b>Odor</b>	Characterisc Petroleum	<b>Flash Point:</b>	270 F TOC		
<b>Physical State:</b>	Liquid	<b>Flammable/Explosive Limits(%):</b>	Not Determined		
<b>pH:</b>	Not applicable	<b>NFPA Health:</b>	1	<b>HMIS Health:</b>	1
<b>Vapor Pressure(mm Hg):</b>	Not determined	<b>NFPA Flammability:</b>	1	<b>HMIS Fire:</b>	1
<b>Vapor Density(air=1):</b>	Not determined	<b>NFPA Reactivity:</b>	0	<b>HMIS Reactivity:</b>	0
<b>Boiling Point/Range:</b>	Not determined				
<b>Freezing/Melting Point:</b>	Not Applicable				

## **10. STABILITY AND REACTIVITY**

**Stability:** Stable  
**Conditions to Avoid:** Avoid contact with strong oxidizing agents and temperatures in excess of 300C.  
**Materials to Avoid(Incompatibl e Materials):** Avoid contact with strong oxidizing agents and temperatures in excess of 300C.

