



# Material Safety Data Sheet

## The Armor All/STP Products Company

44 Old Ridgebury Road  
Suite 300  
Danbury, CT 06810  
Tel. 1-203-205-2900

### 1. Product And Company Identification

**Product Name:** STP® Brake Fluid DOT 3

**Responsible Party:** The Armor All/STP Products Company  
44 Old Ridgebury Road  
Suite 300  
Danbury, CT 06810

**Information Phone Number:** +1 203-205-2900

**Emergency Phone Number:**

For Medical Emergencies, call 1-866-949-6465 / +1 303-389-1332 (Outside US and Canada)  
For Transportation Emergencies, call 1-800-424-9300 (Chemtrec) +1-703-527-3887 for  
Outside US and Canada (call collect)

**MSDS Date Of Preparation:** 09/10/14

**Product Use:** Automotive maintenance product – For consumer and professional use

### 2. Hazards Identification

#### EMERGENCY OVERVIEW

CAUTION: Eye irritant. Inhalation of mists or vapors generated at elevated temperatures may cause respiratory irritation. Prolonged skin contact may cause dryness and defatting. Harmful if swallowed. May be harmful if absorbed through the skin.

### 3. Composition/Information On Ingredients

Component	CAS No.	Amount
Triethylene glycol monobutyl ether	143-22-6	23-35%
Diethylene glycol	111-46-6	10-20%
Tetraethylene glycol monoethyl ether	112-50-5	8-20%
Tetraethylene glycol monobutyl ether	1559-34-8	9-14%
Tetraethylene glycol	112-60-7	6-10%
Triethylene glycol monomethyl ether	112-35-6	3-10%
Pentaethylene glycol monobutyl ether	23601-39-0	2-5%
Diethylene glycol monobutyl ether	112-34-5	1-8%
Polyethylene glycol methyl ether	9004-74-4	<=4%
Diethylene glycol monoethyl ether	111-90-0	<=2%

### 4. First Aid Measures

**Inhalation:** If symptoms of exposure develop, remove to fresh air. If breathing becomes difficult, administer oxygen. If breathing has stopped, administer artificial respiration. Get medical attention if symptoms appear and persist.

**Skin Contact:** Remove contaminated clothing and launder before reuse. Wash exposed skin with soap and water. If skin irritation or redness develops, get medical attention.

**Eye Contact:** Flush eyes with large amounts of water for 15 minutes. If irritation or other symptoms persist, get medical attention.

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. If the victim is fully conscious, have them rinse their mouth with water. Get medical assistance by calling a doctor or poison center. Never give



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anything by mouth to a person who is unconscious or drowsy.

## 5. Firefighting Measures

**Extinguishing Media:** Use water fog, alcohol-resistant foam, carbon dioxide or dry chemical. Cool fire exposed containers with water.

**Special Fire Fighting Procedures:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

**Unusual Fire Hazards:** Closed containers may rupture if exposed to extreme heat.

**Hazardous Combustion Products:** Burning may produce carbon monoxide and carbon dioxide.

## 6: Accidental Release Measures

**Personal Precautions:** Caution – slip hazard. Eliminate all ignition sources and ventilate the area. Wear appropriate protective equipment.

**Environmental Precautions:** Prevent entry in storm sewers and waterways. Report spill as required by local and national regulations.

**Methods for Containment and Clean-Up:** Stop spill at the source if it is safe to do so. Absorb with an inert material. Collect into a suitable container for disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard.

## 7. Handling and Storage

Avoid contact with eyes. Avoid prolonged contact with skin and clothing. Avoid breathing vapors and mists. Wash exposed skin thoroughly with soap and water after use. Keep containers closed when not in use. Do not permit smoking in use or storage areas. Keep out of the reach of children.

Store in a cool, dry, well ventilated area. Store away from oxidizing agents and other incompatible materials.

Empty containers retain product residue and may be hazardous. Do not reuse empty containers.

## 8. Exposure Controls / Personal Protection

CHEMICAL	EXPOSURE LIMIT
Triethylene glycol monobutyl ether	None Established
Diethylene glycol	None Established
Tetraethylene glycol monoethyl ether	None Established
Tetraethylene glycol monobutyl ether	None Established
Tetraethylene glycol	None Established
Triethylene glycol monomethyl ether	None Established
Pentaethylene glycol monobutyl ether	None Established
Diethylene glycol monobutyl ether	None Established
Polyethylene glycol methyl ether	None Established
Diethylene glycol monoethyl ether	None Established

**Ventilation:** General ventilation should be adequate for all normal use. For operations where mists are excessive and irritation is experienced, forced ventilation such as local exhaust may be needed to maintain exposures below applicable limits.



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**Respiratory Protection:** None under normal use conditions. For operations where mists are excessive and irritation is experienced, a NIOSH approved respirator with an organic vapor cartridge and a dust/mist prefilter or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

**Gloves:** Impervious gloves such as neoprene or nitrile are recommended if needed to avoid prolonged or repeated skin contact.

**Eye Protection:** Safety glasses or goggles are recommended if eye contact is possible.

**Other Protective Equipment/Clothing:** Appropriate protective clothing as needed to prevent prolonged/ repeated skin contact.

### 9. Physical and Chemical Properties

**Appearance And Odor:** Light amber liquid with a mild odor.

<b>pH:</b> Not applicable	<b>Specific Gravity:</b> 1.05
<b>Boiling Point:</b> >449°F (232°C)	<b>Vapor Pressure:</b> Not determined
<b>Freezing Point:</b> -58°F (-50°C)	<b>Vapor Density:</b> Not determined
<b>Solubility In Water:</b> Soluble	<b>Percent Volatile:</b> Not determined
<b>Viscosity:</b> Not determined	<b>Evaporation Rate:</b> Not determined
<b>Coefficient Of Water/Oil Distribution:</b> Not determined	<b>Autoignition Temp:</b> 590°F (310°C)
<b>Flash Point:</b> 249°F (121°C) PMCC	
<b>Flammability Limits:</b> LEL: Not determined	UEL: Not determined

### 10. Stability and Reactivity

**Stability:** Stable

**Conditions To Avoid:** Keep away from excessive heat and open flames.

**Incompatibility:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Burning may produce carbon monoxide, carbon dioxide, and hydrocarbons.

### 11. Toxicological Information

#### **Acute Hazards:**

**Inhalation:** Inhalation of mists or vapors generated at elevated temperatures may cause upper respiratory tract irritation.

**Skin Contact:** Prolonged or repeated contact may cause mild irritation.

**Eye Contact:** Direct contact may cause moderate to severe eye irritation with redness, tearing and pain.

**Ingestion:** Swallowing may cause gastrointestinal irritation with nausea, vomiting and diarrhea and central nervous system depression with symptoms of dizziness, drowsiness and nausea.

**Chronic Hazards:** In oral studies with laboratory animals, ingredients caused effects on reproduction.



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**Medical Conditions Aggravated By Exposure:** None known.

**Carcinogen:** None of the components is listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH or OSHA.

### Acute Toxicity Values:

Triethylene glycol monobutyl ether: LD50 Oral Rat: 5,300 mg/kg; LD50 Skin Rabbit: 3540 mg/kg  
Diethylene glycol: LD50 Oral Rat: 12,565 mg/kg; LD50 Skin Rabbit: 11,900 mg/kg  
Tetraethylene glycol monoethyl ether: No data available  
Tetraethylene glycol monobutyl ether: No data available  
Tetraethylene glycol: LD50 Oral Rat: >18,056 mg/kg; LD50 Skin Rabbit: >20,000 mg/kg  
Triethylene glycol monomethyl ether: LD50 Oral Rat: 11,800 mg/kg; LD50 Skin Rabbit: 7400 mg/kg  
Pentaethylene glycol monobutyl ether: No data available  
Diethylene glycol monobutyl ether: LD50 Oral Rat: 5,080 mg/kg; LD50 Skin Rabbit: 2764 mg/kg  
Polyethylene glycol methyl ether: LD50 Oral Rat: >20,000 mg/kg; LD50 Skin Rabbit: >20,000 mg/kg  
Diethylene glycol monoethyl ether: LD50 Oral Rat: 5,400 mg/kg; LD50 Skin Rabbit: 9000 mg/kg

## 12. Ecological Information

This material is highly soluble in water and will degrade rather rapidly in water and soil. Laboratory tests indicate that it is not significantly toxic to fish and aquatic invertebrates. Wildlife species may be more susceptible to the toxic effects. Bioaccumulation is not likely.

## 13. Disposal Considerations

Dispose of in accordance with all local, state/provincial and federal regulations.

## 14. Transport Information

**DOT Hazardous Materials Description:** Not Regulated

**Canadian TDG Hazardous Materials Description:** Not Regulated

**IMDG Dangerous Goods Description:** Not Regulated

## 15. Regulatory Information

### United States:

**EPA TSCA INVENTORY:** All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

**CERCLA Section 103:** This product has no RQ, however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**SARA Hazard Category (311/312):** Acute Health, Chronic Health

**SARA 313:** This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): Glycol Ether Compounds 100%

### Canada:



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**Canadian WHMIS Classification:** Class D - Division 2 - Subdivision B - (Toxic material causing other toxic effects)

**Canadian Environmental Protection Act:** All of the ingredients are listed on the Canadian Domestic Substances List.

This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

### 16. Other Information

NFPA Rating (NFPA 704):	Health: 1	Fire: 1	Instability: 0
HMIS Rating:	Health: 1	Fire: 1	Reactivity: 0

REVISION SUMMARY: Revision change.

DATA SUPPLIED IS FOR USE ONLY IN CONNECTION WITH OCCUPATIONAL SAFETY AND HEALTH