

# PURE GUARD DOT 4 BRAKE FLUID



# Safety Data Sheet

Conforms to HCS 2012 (29 CFR 1910.1200)

## Section 1. Identification

### Product identifier

**Product Name:** Pure Guard DOT4 Brake Fluid  
**Other names:** Pure Guard DOT4 Heavy Duty Brake Fluid, Pure Guard DOT4 Motor Vehicle Brake Fluid  
**Part/Product Number(s):** P238, P920, P1240, P1229  
**Material Use:** Automotive brake fluid  
**Uses advised against:** No information available  
**Manufacturer:** Omni Specialty Packaging, LLC  
10399 Hwy 1 South  
Shreveport, LA 71115  
1-318-524-1100  
**Issuing date:** May 7, 2015  
**Revision date:** October 13, 2015  
**Revision number:** 001  
**Company contact:** OMNI EHS Department; E-Mail: [sds@osp.cc](mailto:sds@osp.cc); Contact phone: 318-524-1100  
(Monday-Friday, 8:00 AM – 4:00 PM, CST)  
**In case of emergency:** CHEMTREC: Within USA and Canada: 1 (800) 424-9300 (24/7)  
CHEMTREC Outside USA and Canada: +1 703-527-3887 (24/7)

## Section 2. Hazards Identification

**OSHA/HCS Status:** This product is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the Substance or Mixture:** Serious Eye Damage/Eye Irritation – Category 2A

### GHS Label Elements

**Hazard pictograms:**



**Signal word:** WARNING

**Appearance:** Clear      **Physical State:** Liquid      **Odor:** Petroleum distillates

**Physical Hazard statement:** None

**Health Hazard statement:** Causes serious eye irritation.

### Precautionary statements

**General:** Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

**Prevention:** Wash face, hands and any exposed skin thoroughly after handling.  
Wear eye/face protection.

- Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists: Get medical attention.
- Storage:** Store locked up.
- Disposal:** Dispose of contents/container to an approved waste disposal plant.
- Hazards not otherwise classified (HNOC):** Not applicable.
- Other information:** No information available.

### Section 3. Composition/Information on Ingredients

Automotive brake fluid and additives mixture.

**Substance/Mixture:** Mixture

<u>Components Name</u>	<u>CAS number</u>	<u>Weight %*</u>
Triethylene glycol monoethyl ether	112-50-5	20-30
Diethylene glycol, monoethyl ether	111-90-0	10-20
Diethylene glycol, monobutyl ether	112-34-5	5-10
Diethylene glycol	111-46-6	3-8

\* The exact percentage of composition has been withheld as a trade secret.

### Section 4. First Aid Measures

#### Description of necessary first aid measures

- General Advice:** No specific first aid measures are required. Get medical attention if irritation develops and persists.
- Eye contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. If irritation persists, get medical attention.
- Skin contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation or allergic reaction develops and persists.
- Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.
- Ingestion:** If swallowed, do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Get medical attention if symptoms occur.
- Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training. Wear personal protective clothing (see section 8).

#### Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

#### **Most Important**

**Symptoms and Effects:** Personnel with pre-existing skin disorders should avoid contact with this product. Under normal use conditions, no adverse effects to health are known.

- Eye contact:** Causes eye irritation. Symptoms may include red eyes and irritation.
- Skin contact:** Contact with skin is not expected to cause prolonged or significant irritation. Contact with skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.
- Inhalation:** May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficult breathing.
- Ingestion:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Note to physician:** Treat symptomatically.

## Section 5. Fire-Fighting Measures

**Uniform Fire Code:** Combustible liquid

**Flash Point:** 203°C (397.4°F)

### Extinguishing Media

**Suitable Media:** In case of fire, use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water fog, alcohol resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>) extinguisher or spray.

**Unsuitable Media:** None.

### **Specific Hazards Arising from the Chemical:**

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritation.

**Hazardous Combustion Products:** Combustion products may include the following: Carbon dioxide (CO<sub>2</sub>) Carbon monoxide (CO), and trace amounts of Nitrogen oxides.

**Protection of Fire Fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## Section 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

**For emergency responders:** If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. Do not get in eyes. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. See also the information in "For non-emergency personnel".

**Environmental precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). See Section 12 for ecological information.

### Methods and materials for containment and cleaning up

**Small Spills:** Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large Spills:** Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

NOTE: If RQ (Reportable Quantity) is exceeded or if spills enter a body of water, report immediately to the USEPA's National Response Center at (800) 424-8802. Check with your local and state regulators regarding their reporting requirements.

## Section 7. Handling and Storage

**Precautions for safe handling**

- Protective measures:** Do not get in eyes. Eye protection and face shield should be used. Put on appropriate personal protective equipment (see Section 8). Keep out of reach of children.
- Advice on general occupational hygiene:** Do not get in eyes, on skin or on clothing. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas.  
See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities:** Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, strong oxidizing agents (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use.

**Section 8. Exposure Controls/Personal Protection****Control parameters**

This product does not have any hazardous materials with occupational exposure limits established by region specific regulatory bodies.

**Occupational Exposure Limits**

Chemical name	ACGIH		OSHA		NIOSH	
	TLV	STEL	PEL	STEL	TWA	Ceiling
Triethylene glycol, monoethyl ether (CAS 112-50-5)	None listed					
Diethylene glycol monoethyl ether (CAS 111-90-0)	None listed					
Diethylene glycol monobutyl ether (CAS 112-34-5)	None listed					
Diethylene glycol (CAS 111-46-6)	None listed					

**Appropriate engineering controls:** Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Emergency shower and eyewash station.

**Environmental exposure controls:** None specific.  
**Individual protection measures**

**Hygiene measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/Face Protection:** Wear safety glasses with side shields. A face shield and goggles may be necessary under some conditions.

**Skin and Body Protection**

**Hand protection:** Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Butyl rubber, Neoprene, Nitrile/butadiene rubber (Nitrile or NBR), Polyvinyl chloride ("PVC" or "vinyl"). Consult your supervisor or Standard Operating Procedure (SOP) for special handling instructions.

**Body protection:** No protective equipment is needed under normal use conditions. Wear clean body-covering clothing. For non-routine tasks, personal protection equipment for the body should be selected based on the task being performed and the risks involved.

**Other skin protection:** Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.

**Respiratory protection:** No respiratory protection is normally required.

## Section 9. Physical and Chemical Properties

<u>Appearance</u>	<u>(Typical or Target)</u>
Physical State:	Liquid
Color:	Clear
Odor:	Etheric
pH:	10.5 SUS
Boiling Point:	>230°C (>446°F) (Typical or Target)
Flash Point (Closed cup):	203°C (397.5°F) (Typical or Target)
Evaporation rate (Butyl acetate = 1):	Not available
Flammability (solid, gas):	Not applicable. Based on - Physical state
Flammable) Limit in Air:	Not available
Vapor pressure:	Not available
Vapor density (Air = 1):	>1
Relative density:	1.06 kg/l at 15°C (Typical or Target)
Solubility:	Completely soluble in water
Partition coefficient (n-Octanol/water):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity – Kinematic (cSt (mm <sup>2</sup> /s) @ 40°C):	Not available
Viscosity – Dynamic (cSt (mm <sup>2</sup> /s) @ 100°C):	Not available
VOC %:	0% Not a VOC

## Section 10. Stability and Reactivity

Reactivity:	Not reactive under normal storage conditions
Chemical stability:	Stable under normal storage conditions
Possibility of hazardous reactions:	None under normal processing.
Hazardous polymerization:	Hazardous polymerization does not occur.
Conditions to avoid:	None known based on information supplied.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	May include: Fumes, Smoke, Carbon Oxides (including carbon monoxide and carbon dioxide) and incomplete combustion products.

## Section 11. Toxicological Information

### Information on toxicological effects

#### Product Information

Inhalation:	May cause irritation of respiratory tract.
Skin Corrosion/Irritation:	May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
Serious Eye Damage/Irritation:	Irritating to eyes.
Ingestion:	Harmful if swallowed. Ingestion may cause irritation to mucus membranes.
Aspiration hazard:	Not expected to be an aspiration hazard.
Skin Sensitization:	No information available.
Respiratory Sensitization:	No information available.
Specific Target Organ Toxicity	
Single Exposure (STOT-SE):	No information available.
Repeated Exposure (STOT-RE):	No information available.
Carcinogenicity:	Contains no ingredients listed as a carcinogen.
Germ Cell Mutagenicity:	No information available.
Reproductive Toxicity:	No information available.

### Information on Toxicity Effects of Compounds

**Symptoms:** Eye contact with liquid may cause irritation including stinging, burning, tearing or redness of the eyes.

**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document.

**Acute Toxicity Estimate (ATEmix) - Oral: 2244 mg/kg (Category 5)**

**Acute Toxicity Estimate (ATEmix) - Dermal: 2710 mg/kg (Category 5)**

**Section 12. Ecological Information**

The information is based on data available for the material, the components of the material, and similar materials.

**Ecotoxicity:** The environmental impact of this product has not been fully investigated

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Triethylene glycol, monoethyl ether	Not available	Not available	Not available	Not available
Diethylene glycol monoethyl ether	Not available	LC50 96h: 11400-15700 mg/L flow-through (Oncorhynchus mykiss) LC50 96h: 11600-16700 mg/L flow-through (Pimephales promelas) LC 50 96h: 19100 - 23900 mg/L flow-through (Leuciscus macrochirus) LC50 96h = 10000 mg/L Static (Leuciscus macrochirus) LC50 96h: = 13400 mg/L Flow through (Salmo gairdneri)	Not available	EC50 48h: = 3940 – 4670 mg/L (Daphnia magna)
Diethylene glycol monobutyl ether	EC50 72h: >100 mg/L (Desmodesmus subspicatus)	LC50 96h: = 1300 mg/L Static (Leuciscus macrochirus)	Not available	EC50 48h: = 2850 mg/L (Daphnia magna)
Diethylene glycol	Not available	LC50 96h: = 75200 mg/L Static (Leuciscus promelas)	EC50 = 29228 mg/L 15 min	EC50 48h: =84000 mg/L (Daphnia magna)

**Mobility:** No information available.

**Soil/water partition coefficient (Koc):** No information available.

**Persistence and degradation**

**Biodegradation:** No information available.

**Bioaccumulative potential**

**Bioaccumulation:** No information available.

**Other adverse effects:** No information available.

**Other ecological information:** No information available.

**Section 13. Disposal Considerations**

**Disposal recommendations based on material supplied.**

**Waste Disposal methods:** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Consult the appropriate state, regional, or local regulations for additional requirements. The generation of waste should be avoided or minimized wherever possible.

**Contaminated packaging:** Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**Other information:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Section 14. Transport Information**

**General information:**

	DOT Classification	IMDG	IATA
Brake Fluid DOT 4	Not Regulated	Not Regulated	Not Regulated

**Special precautions for user:** Transport within user’s premises: Always transport in closed containers that are upright and secure

**Section 15. Regulatory Information**

United States Regulations

**United States Inventory (TSCA 8b):** All components are listed or exempted.

**SARA 302/304:** No products were found.

**SARA 311/312:**  
 Immediate (Acute) Health Effects: Yes  
 Delayed (Chronic) Health Effects: No  
 Fire Hazard: No  
 Sudden Release of Pressure Hazard: No  
 Reactivity Hazard: No

**SARA 313:**

The following components of this material are found on the EPCRA 313 list:

Components Name	CAS number	Weight %*	SARA 313 – Threshold Values %
Triethylene glycol, monoethyl ether	112-50-5	20-30	1.0
Diethylene glycol monobutyl ether	112-34-5	5-10	1.0

**CWA (Clean Water Act):** This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA:** This material, as supplied, does not contain any substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

State Regulations

**Massachusetts:** None of the components are at or above regulated thresholds.  
**New Jersey:** None of the components are at or above regulated thresholds.  
**Illinois:** Triethylene glycol monoethyl ether, Diethylene glycol monoethyl ether  
**Pennsylvania:** Triethylene glycol monoethyl ether, Diethylene glycol monoethyl ether, Diethylene glycol  
**Rhode Island:** Diethylene glycol  
**California Proposition 65:** WARNING: This product contains a chemical known to the State of California to cause cancer. None.

Canada

**WHMIS Hazard Class:** B3 – Combustible liquid  
 C3B – Toxic Material Causing Other Toxic Effects

International Chemical Inventories:

All components comply with the following chemical inventory requirements: DSL (Canada)

**Section 16. Other Information**

<b>NFPA Rating:</b>	<b>Health Hazard – 2</b>	<b>Flammability – 1</b>	<b>Instability/Reactivity – 0</b>	
<b>HMIS Rating:</b>	<b>Health Hazard – 2</b>	<b>Flammability – 1</b>	<b>Physical Hazards – 0</b>	<b>PPE - B</b>

(NFPA & HMIS Hazard Rating Key: 0 - Minimum Hazard; 1 - Slight Hazard; 2 - Moderate Hazard; 3 - High Hazard; 4 - Extreme Hazard; \* - Chronic Hazard Indicator, & PPE - Personal Protective Equipment Index A to L. These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS or Hazardous Material Identification System).

**Key to abbreviations:**

OSHA = Occupational Safety and Health Administration  
 ACGIH= American Conference of Industrial Hygienists

LogPow = logarithm of the octanol/water partition coefficient  
 OEL = Occupational Exposure Limit

ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
CAS = Chemical Abstracts Service Registry Number  
cSt = Centistroke (mm<sup>2</sup>/s)

SDS = Safety Data Sheet  
STEL = Short term exposure Limit  
UN = United Nations  
UN Number = United Nations Number, a four digit number

GHS = Global Harmonized System of Classification and Labeling  
Of Chemicals.

assigned by the United Nations Committee of Experts on  
the Transportation of Dangerous Goods

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

**Prepared By:** OMNI Specialty Packaging EH&S Department

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**Status:** Final

**Revision Note:** Revision 001 – CHEMTREC phone number update.

**Consumer Product Improvement Act of 2008, General Conformity Certification**

**For Consumer Product Packages: This product has been evaluated and is certified to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission. Where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No testing is required to certify compliance with the provisions. The date of the manufacturing is stamped on the product container.**

**Disclaimer**

All reasonably practicable steps have been taken to ensure the information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This information is furnished upon condition that the person receiving it shall make their own determination of the suitability of the material for their particular purpose.

**End of Safety Data Sheet**