

SAFETY DATA SHEET

Conforms to HCS 2012 (29 CFR 1910.1200)

Pure Guard DOT 4 Brake Fluid.

REVISION DATE

January 20, 2021

ISSUING DATE

May 7, 2015

REVISION NUMBER

2

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	January 20, 2021
Revision number	2
Company contact	OMNI EHS Department: E-Mail: 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)

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.

3 Composition/Information on Ingredients

Automotive brake fluid and additives mixture.

Substance/Mixture

Mixture

Components Name CAS number Weight %*

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.

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.

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 ₂) 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 ₂) 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.

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.

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.

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 None listed None listed None listed None listed None listed

Diethylene glycol monoethyl

ether (CAS 111-90-0) None listed None listed None listed None listed None listed None listed

Diethylene glycol monobutyl

ether (CAS 112-34-5) None listed None listed None listed None listed None listed None listed

Diethylene glycol

(CAS 111-46-6) None listed None listed None listed None listed None listed 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.

9 Physical and Chemical Properties

Appearance (Typical or Target)

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 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 (mm²/s)@ 40°C)	Not available
Viscosity – Dynamic (cSt (mm²/s) @ 100°C)	Not available
VOC %	0% Not a VOC

10 Stability and Reactivity

Reactivity	Not reactive under normal storage conditions
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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.

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.
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Acute Toxicity Estimate (ATEmix) – Oral

2244 mg/kg (Category 5)

Acute Toxicity Estimate (ATEmix) – Dermal

2710 mg/kg (Category 5)

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

12 Ecological Information

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.

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.

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

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:

This product does not contain any chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

NOTE For additional information on California Proposition 65 go to www.P65Warnings.ca.gov

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)

16 Other Information

NFPA RATING

2

Health Hazard

1

Flammability

0

Instability/Reactivity

HMIS RATING

2

Health Hazard

1

Flammability

0

Physical Hazards

(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

ACGIH = American Conference of Governmental Industrial Hygienists; CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; GHS = Globally Harmonized System; IARC = International Agency for Research on Cancer; INSHT = National Institute for Health and Safety at Work; IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker

Hazardous Materials Information System (Canada)

Prepared By OMNI Specialty Packaging EH&S Department

Revision Date January 20, 2021

Status Final

Revision Note Revision 2 – Review and update.
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