Safety Data Sheet

Conforms to HCS 2012 (29 CFR 1910.1200)

Section 1. Identification

Product identifier

Product Name: **Pure Guard Brake Fluid DOT3 –** Minimum Boiling Point 450°F

Other names: DOT 3 High Boiling Point Brake Fluid - 450°F minimum, Super Heavy Duty DOT 3 Brake Fluid, Synthetic DOT 3 Brake Fluid, Synthetic Motor Vehicle Brake Fluid.

Part/Product Number(s): **P001, P002, P003, P004, P005, P1265, P1285, P1323**

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

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Revision number: 004

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)

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 1
Specific Target Organ Toxicity-Repeat Exposure – Category 2

GHS Label Elements

Hazard pictograms:

Signal word: DANGER

Physical Hazard statement: None

Health Hazard statement: Causes serious eye damage. (H318)
May cause damage to organs (kidneys) through prolonged or repeated exposure (oral). (H373)

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: Do not breathe vapors, mist or spray. (P260)
Wear protective gloves/protective clothing/eye protection/face protection. (P280)

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
Immediately call a POISON CENTER or doctor/physician. (P310)
Get medical advice/attention if you feel unwell. (P314)

Storage: Store locked up. (P405)

Disposal: Dispose of contents/container to an approved waste disposal plant. (P501)

Hazards not otherwise classified (HNOC): No data available.

Other information: Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

Section 3. Composition/Information on Ingredients

Automotive brake fluid and additives mixture.

Substance/Mixture: Mixture

Components Name	CAS number	Weight %*	GHS-US classification
Triethylene glycol, monobutyl ether	143-22-6	15-50	Eye Dam. 1, H318
Diethylene glycol	111-46-6	15-25	Acute Tox. 4 (Oral), H302 STOT-RE 2, H373
Triethylene glycol, monoethyl ether	112-50-5	10-15	Not classified
Diethylene glycol, monobutyl ether	112-34-5	5-15	Flam. Liq. 4, H227 Eye Irrit. 2A, H319
Ethanol, 2-(2-propoxyethoxy)-	6881-94-3	2-5	Eye Irrit. 2A, H319

* 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. 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. Call a POISON CERTER or doctor/physician 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 serious eye irritation. Symptoms may include burning, red eyes and tearing.

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: Not expected to be harmful. Ingestion may cause mild gastrointestinal irritation, nausea, vomiting and/or 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 (CO2) 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 (CO2) 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
Diethylene glycol CAS 111-46-6	10 mg/m3	None listed	None listed	None listed	None listed	None listed
Diethylene glycol monobutyl ether CAS 112-34-5	10 ppm (inhalable fraction & vapor)	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.

Section 9. Physical and Chemical Properties

Appearance	(Typical or Target)
Physical State:	Liquid
Color:	Clear
Odor:	Etheric
Odor threshold:	Not available
pH:	10.5
Boiling Point:	205°C (401°F)
Flash Point (Closed cup):	203°C (397.5°F)
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:	1.015 at 15°C
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

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:	Causes serious eye damage.
Ingestion:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Triethylene glycol monobutyl ether (143-22-6)	5300 mg/kg (Rat)	3480 mg/kg (Rabbit)	Not available
Triethylene glycol monoethyl ether (112-50-5)	7750 mg/kg (Rat)	Not available	Not available
Diethylene glycol (111-46-6)	1120 mg/kg (Rat)	11,890 mg/kg (Rabbit)	Not available
Diethylene glycol monobutyl ether (112-34-5)	5660 mg/kg (Rat)	2700 mg/kg (Rabbit)	Not available

Acute Toxicity:	Not classified
Aspiration hazard:	Not classified.

Skin Sensitization: Not classified.

Respiratory Sensitization: Not classified

Specific Target Organ Toxicity Single Exposure (STOT-SE): Not classified.

Repeated Exposure (STOT-RE): May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

Carcinogenicity: Not classified.

Germ Cell Mutagenicity: Not classified.

Reproductive Toxicity: Not classified.

Information on Toxicity Effects of Compounds

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

Section 12. Ecological Information

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

Ecotoxicity: Not classified.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Triethylene glycol, monobutyl ether (143-22-6)	EC50 72h: >500 mg/L (Desmodesmus subspicatus)	LC 50 96h: = 2400 mg/L (Pimephales promelas) LC50 96h = 2400 mg/L Static (Pimephales promelas)	Not available	EC50 48h: >500 mg/L (Daphnia magna)
Diethylene glycol (111-46-6)	Not available	LC50 96h: = 75200 mg/L flow-through (Pimephales promelas)	Not available	EC50 48h: = 8400 mg/L (Daphnia magna)
Diethylene glycol monobutyl ether (112-34-5)	Not available	LC50 96h: = 1300 mg/L Static (Leuciscus macrochirus)	Not available	EC50 48h:= >100 mg/L (Daphnia magna)

Mobility: No information available.

Soil/water partition coefficient (K_{OC}): No information available.

Persistence and degradation

Biodegradation: Not established.

Bioaccumulative potential

Bioaccumulation: Not established.

Chemical name	BCF Fish 1	Log Pow
Triethylene glycol, monobutyl ether (143-22-6)	No significant bioaccumulation	0.51 (at 25°C)
Diethylene glycol (111-46-6)	100-180	-1.98 (at 25°C)
Diethylene glycol monobutyl ether (112-34-5)	No bioconcentration expected	Not available

Other adverse effects: No information available.

Other ecological information: Avoid release to the environment.

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. Avoid releases to the environment.

Section 14. Transport Information

General information:

	DOT Classification	IMDG	IATA
Brake Fluid DOT 3-450	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:	Yes
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: None

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 monobutyl ether, Diethylene glycol monobutyl ether,
Pennsylvania: Triethylene glycol monobutyl ether, Diethylene glycol monobutyl ether, Diethylene glycol
Rhode Island: Triethylene glycol
California Proposition 65: WARNING: This product is not known to the State of California to cause cancer, 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

International Chemical Inventories:

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

Section 16. Other Information

NFPA Rating:	**Health Hazard – 2**	**Flammability – 1**	**Instability/Reactivity – 0**	
HMIS Rating:	**Health Hazard – 2**	**Flammability – 1**	**Physical Hazards – 0**	**PPE - 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
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service Registry Number
cSt = Centistroke (mm2/s)
GHS = Global Harmonized System of Classification and Labeling Of Chemicals.
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
OEL = Occupational Exposure Limit
SDS = Safety Data Sheet
STEL = Short term exposure Limit
UN = United Nations
UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transportation of Dangerous Goods

GHS Full Text Phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 4	Flammable liquids Category 4
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H227	Combustible liquid
H302	Harmful if swallowed
H318	Causes serious eye damage
H319	Causes serious eye irritation
H373	May cause damage to organs through prolonged or repeated e
P405	Store locked up.

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

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Status: **Final**

Revision Note: **Revision 004 – 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