Material Safety Data Sheet

NFPA

HMIS

Health Hazard	1
Fire Hazard	1
Reactivity	0

Issuing Date 28-June-2010 **Revision Date** 23-Jan-2012 **Revision Number** 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name DOT 3 BRAKE FLUID

Product Code

Recommended Use

Manufactured by: Omni Specialty Packaging
10399 S. Hwy 1
Shreveport, LA 71115
Phone: 1 (318) 524-1100

Emergency Telephone Number CHEMTREC
1 (800) 424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Clear, amber liquid **Physical State** Liquid **Odor** Slight etheric odor

Potential Health Effects

Principal Routes of Exposure Eye contact, Skin contact, Inhalation, Ingestion

Acute Toxicity

Eyes Low hazard for usual handling.

Skin Skin contact may cause irritation. Brake fluid may be slowly absorbed through the skin. Excessive exposure for extended periods of time involving large areas of skin would be necessary for absorption of harmful amounts.

Inhalation Low hazard at ambient condition. Avoid prolonged inhalation of mist or vapors. Acute or chronic overexposure may be irritating to the respiratory tract. Severe intoxication may lead to drowsiness, dullness, numbness, and headache followed

by dizziness, weakness, and nausea.

Ingestion Do not ingest. Ingestion of large quantities may be fatal.

Other

Chronic Effects Repeated inhalation, ingestion or skin absorption of glycol ethers over time may result in toxicity symptoms and may adversely affect the liver and kidneys. Chronic glycol ether inhalation has resulted in tremor, lethargy, headache, blurred vision, personality changes and coma.

Aggravated Medical Conditions Overexposure may aggravate pre-existing eye and skin conditions.

Environmental Hazard See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula Mixture

Chemical Name	CAS-No	Weight %
Polyethylene Glycol Ethers	112-50-5	50-85
Polyethylene Glycol	25322-68-3	15-50

4. FIRST AID MEASURES

Eye Contact Flush with water for 15 minutes thoroughly and continue flushing until irritation subsides.

Skin Contact Wash with soap and water thoroughly. Remove contaminated clothing and wash before re-use. If redness or irritation occurs, seek medical attention.

Inhalation Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Ingestion Never give anything by mouth to an unconscious person. If person is conscious, give large quantities of water immediately. Induce vomiting. Get immediate medical attention.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable.

Flash Point 270°F

Suitable Extinguishing Media Water Fog. Carbon dioxide (CO_2). Foam. Dry chemical.

Unsuitable Extinguishing Media Not Available

Hazardous Combustion Products Normal products of combustion; carbon dioxide, carbon monoxide.

Explosion Data

Sensitivity to Mechanical Impact Not sensitive.

Sensitivity to Static Discharge Not sensitive.

Protective Equipment and Precautions for Firefighters Wear positive pressure self-contained breathing apparatus (SCBA). Use water to cool containers exposed to flames. When using water or foam, frothing may occur, especially if sprayed into containers of hot, burning liquid Structural firefighters' protective clothing will only provide

limited protection. .

NFPA **Health Hazard** 1 **Flammability** 1 **Stability** 0 **Physical and Chemical Hazards** -

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Avoid contact with skin, eyes, and clothing. Ensure adequate ventilation.

Methods for Containment Dike far ahead of liquid spill for later disposal.

Methods for Cleaning Up Pick up free liquid for recycle and/or disposal. Residual liquid and/or solid can be absorbed on inert material.

Evacuation Procedures

Large Spill
Fire Consider initial downwind evacuate for at least 150 meters (500 feet).
If tank, rail car or tank car is involved in a fire, isolate for 1600 meters (1 mile) in all directions; also consider initial evacuation for 1600 meters (1 mile) in all directions.

Reporting Requirements Spills that enter a water body must be reported 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

Handling Do not pressure, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode. See NFPA 30 and OSHA 1910.106 – flammable and combustible liquids.

Storage Store away from heat, sparks, open flame, or strong oxidizing agents in closed and properly labeled containers. Empty containers retain product residue (liquid, and/or vapor) and can be dangerous

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Polyethylene Glycol Ethers 112-50-5	None listed	None listed	None listed
Polyethylene Glycol 25322-68-3	None listed	None listed	None listed

Engineering Measures Additional area ventilation or local exhaust may be required to maintain air concentrations below recommended limits.

Personal Protective Equipment

Eye/Face Protection Safety glasses or face shield where splashing is possible. Full face-shield to be worn during emergencies.

Skin and Body Protection As needed to prevent repeated skin contact. Solvent resistant gloves should be used if needed.

Respiratory Protection Not normally needed. During emergencies wear respirator.

Hygiene Measures Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, amber liquid	**Odor**	Slight etheric odor
Physical State	Liquid	**pH**	N/A
Flash Point	410 °F	**Autoignition Temperature**	Not Determined
Boiling Point/Range	455-475 °F	**Freezing Point**	Not Determined
Explosion Limits	N/A	**Flammability Limits in Air**	N/A
Specific Gravity	1.038-1.04	**Solubility**	Complete
Evaporation Rate	N/A	**Vapor Pressure**	<0.1@ 20 °C
Vapor Density	Not Determined	**Density**	N/A

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Incompatible Products Open Flame and strong oxidizing agents.

Conditions to Avoid Heat, flames, and sparks.

Hazardous Decomposition Products Decomposition and combustion products may include smoke, carbon dioxide, carbon monoxide, and toxic fumes.

Hazardous Polymerization None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information Test on similar materials show a low order of acute oral and dermal toxicity.

Acute Oral Effects Test on similar materials indicates low order of acute toxicity.

Acute Inhalation Effects Low acute toxicity expected on inhalation at ambient condition.

Skin Effects Practically non-toxic if absorbed. Other similar highly refined products have not shown skin tumors in mouse skin painting studies.

Eye Irritation Minimal irritation on contact. Eye irritation slightly or practically non-irritating base on similar products.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Polyethylene Glycol Ethers 112-50-5	Rat 10.6 g/kg	Rabbit 8.2 g/kg	Not available
Polyethylene Glycol 25322-68-3	Rat 28 g/kg	Rabbit >20 g/kg	Not available

Chronic Toxicity

Chronic Toxicity Prolonged exposure may cause chronic effects.

Carcinogenicity Not considered a potential carcinogen base on IP346 DMSO of less than 3.0 wt%

Target Organ Effects Respiratory system, Eyes, Skin,

Genotoxicity This product is considered non-mutagenic and has negative potential for tumor development based on from Modified Ames Assay, with Mutagenic Index of less than 1.0.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Polyethylene Glycol Ethers 112-50-5	10,000 mg/L.	*Pimephales promelas*, LC50 > 10,000 mg/L; 96-hr		48-hr LC50 10,000 mg/L; 48-hr
Polyethylene Glycol 25322-68-3		Carassius auratus: >5000 mg/L	Phytobacterium phosphoreum: EC50 =100,000 mg/L; 15 minutes	

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with local regulations. Keep this product out of sewers and waterways.

Contaminated Packaging Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Polyethylene Glycol Ethers 112-50-5	Present	X	203-978-9	x	X	x	X	X
Polyethylene Glycol 25322-68-3	Present	x	(NLP 500-038-2)	x	x	KE-20228	x	x

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does contain chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. - Polyethylene Glycol Ethers

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act
If spilled into navigable waters it is reportable to National Response Center, 800-424-8802. Reportable Quantity = Oil Sheen present on navigable water surface. (40 CFR 116; 401.15)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the

Clean Air Act Amendments of 1990.

CERCLA

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.
Florida
No listed ingredients are present
Massachusetts RTK
No listed ingredients are present
Minnesota RTK
25322-68-3 is present on list
New Jersey RTK
No listed ingredients are present
Pennsylvania RTK
No listed ingredients are present
Illinois DOL TSL
No listed ingredients are present

International Regulations

Mexico – Grade No information available.

Canada Not listed on the Canadian Controlled Product Ingredient Disclosure and is compliant with Controlled Products Regulation

CONEG Metals Since cadmium, chromium, lead and mercury are not detectable and it does not exceed 100 ppm total in this product, it is compliant with CONEG Metals regulation.

EEC (Europe) This product is not known to be a dangerous good internationally.

R-Phrases	No known
S-Phrases	No known
Hazard Label	None
Danger Symbol	None

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
D2B Toxic materials

16. OTHER INFORMATION

Prepared By Safety Department

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Revision Note Not applicable

End of MSDS