

Material Safety Data Sheet

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td>Health Hazard</td> <td>2</td> </tr> <tr> <td>Fire Hazard</td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	Health Hazard	2	Fire Hazard	1	Reactivity	0		
Health Hazard	2								
Fire Hazard	1								
Reactivity	0								

Issuing Date 09-Jan-2007

Revision Date 09-Jan-2007

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Super Tech DOT 3 Brake Fluid, 32 oz.

Recommended Use Automotive

Supplier Address
 Technical Chemical Co.
 3327 Pipeline Road
 Box 139, Cleburne, TX, 76033
 US
 Phone:817-645-6088
 Contact:Richard Miller
 Contact Phone:817-645-6088
 Emergency Phone: 800-424-9300

Company Emergency Phone Number 800-424-9300

2. HAZARDS IDENTIFICATION

WARNING!

Emergency Overview

Combustible liquid.
 Irritating to eyes.
 Vapors may be irritating to eyes, nose, throat, and lungs.
 Harmful if swallowed.
 Contains a known or suspected reproductive toxin.

Appearance Light yellow

Physical State Liquid

Odor organic

Potential Health Effects

Principle Routes of Exposure	Inhalation, Skin contact, Eye contact.
Acute Toxicity	
Eyes	Moderately irritating to the eyes.
Skin	Irritating to skin.
Inhalation	May cause irritation of respiratory tract. May be harmful if inhaled. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
Ingestion	Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Potential for aspiration if swallowed.
Chronic Effects	Avoid repeated exposure. Experiments have shown reproductive toxicity effects on laboratory animals.
Aggravated Medical Conditions	Preexisting eye disorders. Skin disorders. Kidney disorders.
Environmental Hazard	See Section 12 for additional Ecological information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Triethylene glycol monoethyl ether	112-50-5	10 - 30
Triethylene glycol, monobutyl ether	143-22-6	10 - 30
3,6,9,12-Tetraoxahexadecan-1-ol	1559-34-8	10 - 30
2,5,8,11-Tetraoxatridecan-13-ol	23783-42-8	10 - 30
Ethylene oxide-Propylene oxide copolymer monobutyl ether	9038-95-3	10 - 30
Diethylene glycol	111-46-6	5 - 10
Diethylene glycol monobutyl ether	112-34-5	5 - 10
Diethylene glycol monomethyl ether	111-77-3	1 - 5
Diethylene glycol monoethyl ether	111-90-0	1 - 5

4. FIRST AID MEASURES

General Advice	Show this safety data sheet to the doctor in attendance. If symptoms persist, call a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Inhalation	Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
Notes to Physician	Treat symptomatically.
Protection of First-aiders	Use personal protective equipment.

5. FIRE-FIGHTING MEASURES

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Flammable Properties	Combustible material: may burn but does not ignite readily.
Flash Point	250°C / 482°F
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CO2, dry chemical, dry sand, alcohol-resistant foam.
Uniform Fire Code	<ul style="list-style-type: none"> • Combustible Liquid: III-B • Irritant: Liquid
Hazardous Combustion Products	Carbon oxides
Explosion Data	
Sensitivity to mechanical impact	Not sensitive
Sensitivity to static discharge	Yes

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA	Health Hazard 2	Flammability 1	Stability 0	Physical and Chemical Hazards -
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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid contact with the skin and the eyes. Take precautionary measures against static discharges.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other noncombustible absorbent material. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Take precautionary measures against static discharges. Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapors or spray mist.
Storage	Keep container tightly closed. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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Engineering Measures	Showers Eyewash stations Ventilation systems
Personal Protective Equipment	
Eye/face Protection	Tightly fitting safety goggles. Face-shield.
Skin and body protection	Long sleeved clothing. Apron. Impervious gloves.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required
Hygiene Measures	When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light yellow	Odor	organic
Odor Threshold	No information available	Physical State	Liquid
pH	9		
Flash Point	250°C / 482°F	Autoignition Temperature	Not applicable
Decomposition temperature	No data available	Boiling Point/Range	No data available
Melting Point/Range	No data available		
Flammability Limits in Air	No data available	Explosion Limits	No data available
Specific Gravity	No data available	Water Solubility	Soluble in water
Solubility	No data available	Evaporation Rate	No data available
Vapor Pressure	No data available	Vapor Density	No data available
VOC Content	23.3%	Partition Coefficient (n-octanol/water)	

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Conditions to Avoid	Heat, flames and sparks.
Incompatible Products	Strong oxidizing agents. Strong acids. Strong bases. Strong reducing agents.
Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating gases and vapors, Carbon oxides.
Hazardous Polymerization	Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

LD50 Oral VALUE (mg/kg) 6573 mg/kg (rat) estimated
LD50 Dermal VALUE 7711 mg/kg (rat) estimated

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Triethylene glycol monoethyl ether	7750 mg/kg (Rat)	8 mL/kg (Rabbit)	
Triethylene glycol, monobutyl ether	5300 mg/kg (Rat)	3540 µL/kg (Rabbit)	
3,6,9,12-Tetraoxahexadecan-1-ol	5175 mg/kg (Rat)	4000 mg/kg (Rat)	
2,5,8,11-Tetraoxatridecan-13-ol	2000 mg/kg (Rat)		
Ethylene oxide-Propylene oxide copolymer monobutyl ether	12300 µL/kg (Rat)	20 mL/kg (Rabbit)	
Diethylene glycol	12565 mg/kg (Rat)	11890 mg/kg (Rabbit)	
Diethylene glycol monobutyl ether	3384 mg/kg (Rat)	2700 mg/kg (Rabbit)	
Diethylene glycol monomethyl ether	4 mL/kg (Rat)	2500 µL/kg (Rabbit)	
Diethylene glycol monoethyl ether	1920 mg/kg (Rat)	4200 µL/kg (Rabbit)	

Subchronic Toxicity (28 days)

Chronic Toxicity

Chronic Toxicity

Avoid repeated exposure. Experiments have shown reproductive toxicity effects on laboratory animals.

Carcinogenicity

There are no known carcinogenic chemicals in this product

Mutagenicity

Reproductive Toxicity

An ingredient in this product has been shown to cause adverse effects to offspring when animals were exposed during a long-term feeding study. .

Target Organ Effects

None known

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Triethylene glycol, monobutyl ether	EC50 > 500 mg/L 72 h			EC50 > 500 mg/L 48 h
3,6,9,12-Tetraoxahexadecan-1-ol	EC50 > 1000 mg/L 96 h		EC50 > 100 mg/L 6 h	EC50 > 1000 mg/L 48 h
Diethylene glycol			EC50 = 29228 mg/L 15 min	EC50 = 0.3 mg/L 96 h EC50 = 84000 mg/L 48 h
Diethylene glycol monobutyl ether	EC50 > 100 mg/L 96 h			EC50 = 2850 mg/L 24 h EC50 > 100 mg/L 48 h
Diethylene glycol monomethyl ether	EC50 > 500 mg/L 72 h		EC50 > 10000 mg/L 17 h	EC50 = 1192 mg/L 48 h EC50 > 500 mg/L 24 h

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Diethylene glycol monoethyl ether				LC50 3940 - 4670 mg/L 48 h EC50 = 4026 mg/L 48 h

Chemical Name	Log Pow
Triethylene glycol, monobutyl ether	0.51
2,5,8,11-Tetraoxatridecan-13-ol	-0.6
Diethylene glycol	-1.98
Diethylene glycol monomethyl ether	-0.682
Diethylene glycol monoethyl ether	-0.8

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method This material, as supplied, is not a hazardous waste according to state and federal regulations (40 CFR 261)

Contaminated Packaging Dispose of in accordance with local regulations

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Complies
NDSL	Complies
EINECS	Complies
ELINCS	Complies
ENCS	Complies
CHINA	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Triethylene glycol monoethyl ether	112-50-5	10 - 30	1.0
Triethylene glycol, monobutyl ether	143-22-6	10 - 30	1.0
Diethylene glycol monobutyl ether	112-34-5	5 - 10	1.0
Diethylene glycol monomethyl ether	111-77-3	1 - 5	1.0
Diethylene glycol monoethyl ether	111-90-0	1 - 5	1.0

SARA 311/312 Hazard Categories

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

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).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Triethylene glycol monoethyl ether	112-50-5	10 - 30		Group V		
Triethylene glycol, monobutyl ether	143-22-6	10 - 30				
Diethylene glycol	111-46-6	5 - 10		Group I		
Diethylene glycol monobutyl ether	112-34-5	5 - 10		Group I		
Diethylene glycol monomethyl ether	111-77-3	1 - 5		Group I		
Diethylene glycol monoethyl ether	111-90-0	1 - 5		Group I		

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Pesticide Information

Chemical Name	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Ethylene oxide-Propylene oxide copolymer monobutyl ether		List 4B - Inert Ingredients		
Diethylene glycol		List 3 - Unknown Toxicity	X	
Diethylene glycol monobutyl ether		List 2 - Potentially Toxic		
Diethylene glycol monomethyl ether		List 2 - Potentially Toxic		
Diethylene glycol monoethyl ether		List 2 - Potentially Toxic	X	

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Triethylene glycol monoethyl ether		X	X	X	
Triethylene glycol, monobutyl ether		X	X	X	
Diethylene glycol			X		X
Diethylene glycol monobutyl ether		X	X	X	
Diethylene glycol monomethyl ether	X	X	X	X	
Diethylene glycol monoethyl ether		X	X	X	

International Regulations**Mexico - Grade**

Slight risk, Grade 1

Canada

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

Non-controlled

D2A Very toxic materials

**16. OTHER INFORMATION**

Issuing Date 09-Jan-2007

Revision Date 09-Jan-2007

Revision Note

No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of MSDS