

SAFETY DATA SHEET

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NGHS / English



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1. IDENTIFICATION

Product identifier

Product Name Shop Pro DOT 3 Brake Fluid

Other means of identification

Product Code(s) 1602797_AZ

Recommended use of the chemical and restrictions on use

Recommended Use Brake fluid

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Identification Technical Chemical Co.

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2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 1B



Specific target organ toxicity (repeated exposure)	Category 1
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Appearance Clear to yellow**Physical state** Liquid**Odor** Odorless**GHS Label elements, including precautionary statements****Danger****Hazard statements**

Harmful if swallowed

Causes serious eye damage

May damage fertility or the unborn child

Causes damage to organs through prolonged or repeated exposure

**Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a POISON CENTER or doctor

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information**Unknown acute toxicity** 10.9 % of the mixture consists of ingredient(s) of unknown toxicity

10.9 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

10.9 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

10.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

10.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

10.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

Mixture

Chemical name	CAS No	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
3,6,9,12-Tetraoxahexadecan-1-ol	1559-34-8	14.5	-	-
Triethylene glycol, monobutyl ether	143-22-6	10.5	-	-
Ethylene oxide-Propylene oxide copolymer monobutyl ether	9038-95-3	10.1	-	-
Diethylene glycol	111-46-6	9.7	-	-
Poly(oxy-1,2-ethanediyl), .alpha.-butyl-.omega.-hydroxy-	9004-77-7	7	-	-
Diethylene glycol monobutyl ether	112-34-5	6.7	-	-
Diethylene glycol monomethyl ether	111-77-3	3.3	-	-
Diethylene glycol monoethyl ether	111-90-0	3.3	-	-

4. FIRST AID MEASURES

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Eye contact	Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.



5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	No information available.
Hazardous Combustion Products	Carbon oxides.
Explosion Data	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.

Other Information Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Ensure adequate ventilation.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



Control parameters**Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	
Diethylene glycol monobutyl ether 112-34-5	TWA: 10 ppm inhalable fraction and vapor	-		
Chemical name	Alberta	British Columbia	Ontario TWAEV	Quebec
Diethylene glycol monobutyl ether 112-34-5			TWA: 10 ppm	
Diethylene glycol monoethyl ether 111-90-0			TWA: 30 ppm TWA: 165 mg/m ³	

Appropriate engineering controls

Engineering controls Showers
 Eyewash stations
 Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

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.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid
Appearance Clear to yellow
Odor Odorless
Color No information available
Odor Threshold No data available

<u>Property</u>	<u>Values</u>	<u>Remarks Method</u>
pH	8	
Melting / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	94 C / 201 F	
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known

Vapor density	No data available	None known
Relative density	1.040	
Water Solubility	Soluble in water	
Solubility(ies)	No data available	None known
Partition coefficient: n-octanol/water	0	
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

Other Information

Explosive properties	No information available
Oxidizing properties	No information available
Softening Point	No information available
Molecular Weight	No information available
VOC Content (%)	No information available
Liquid Density	No information available
Bulk Density	No information available
Particle Size	No information available
Particle Size Distribution	No information available

10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under normal 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 acids. Strong bases. Strong oxidizing agents.
Hazardous Decomposition Products	Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Severely irritating to eyes. May cause burns. May cause irreversible damage to eyes.
Skin contact	Specific test data for the substance or mixture is not available. May cause irritation.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness.

Numerical measures of toxicity

Acute toxicity

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

ATEmix (oral)	1,946.60 mg/kg
ATEmix (dermal)	7,463.90 mg/kg
ATEmix (inhalation-gas)	39,698.00 ppm
ATEmix (inhalation-dust/mist)	13.20 mg/L
ATEmix (inhalation-vapor)	97.00 mg/L

Unknown acute toxicity 10.9 % of the mixture consists of ingredient(s) of unknown toxicity

- 10.9 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 10.9 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 10.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 10.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 10.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Product Information

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
3,6,9,12-Tetraoxahexadecan-1-ol	= 5175 mg/kg (Rat)	> 4000 mg/kg (Rat)	-
Triethylene glycol, monobutyl ether	= 5300 mg/kg (Rat)	= 3540 mg/kg (Rabbit)	-
Ethylene oxide-Propylene oxide copolymer monobutyl ether	= 5 g/kg (Rat)	= 14100 µL/kg (Rabbit)	= 147 mg/m ³ (Rat) 4 h
Diethylene glycol	= 12565 mg/kg (Rat)	= 11890 mg/kg (Rabbit)	> 4600 mg/m ³ (Rat) 4 h
Poly(oxy-1,2-ethanediyl), .alpha.-butyl-.omega.-hydroxy-	-	= 3540 mg/kg (Rabbit)	-
Diethylene glycol monobutyl ether	= 5660 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	-
Diethylene glycol monomethyl ether	= 4 mL/kg (Rat)	= 9404 mg/kg (Rabbit)	-
Diethylene glycol monoethyl ether	= 10502 mg/kg (Rat)	= 9143 mg/kg (Rabbit)	> 5240 mg/m ³ (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.

STOT - single exposure No information available.

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
3,6,9,12-Tetraoxahexadecan-1-ol	96h EC50: > 1000 mg/L (Pseudokirchneriella subcapitata)	No data available	EC50 > 100 mg/L 6 h	48h EC50: > 1000 mg/L (Daphnia magna)
Triethylene glycol, monobutyl ether	72h EC50: > 500 mg/L (Desmodesmus subspicatus)	96h LC50: = 2400 mg/L (Pimephales promelas)	No data available	48h EC50: > 500 mg/L (Daphnia magna)
Diethylene glycol	No data available	96h LC50: = 75200 mg/L (Pimephales promelas)	EC50 = 29228 mg/L 15 min	48h EC50: = 84000 mg/L (Daphnia magna)
Diethylene glycol monobutyl ether	96h EC50: > 100 mg/L (Desmodesmus subspicatus)	96h LC50: = 1300 mg/L (Lepomis macrochirus)	No data available	48h EC50: > 100 mg/L (Daphnia magna)
Diethylene glycol monomethyl ether	72h EC50: > 500 mg/L (Desmodesmus subspicatus)	96h LC50: = 5741 mg/L (Pimephales promelas) 96h LC50: = 7500 mg/L (Lepomis macrochirus)	EC50 > 10000 mg/L 17 h	48h EC50: > 500 mg/L (Daphnia magna)
Diethylene glycol monoethyl ether	No data available	96h LC50: 11400 - 15700 mg/L (Oncorhynchus mykiss) 96h LC50: 11600 - 16700 mg/L (Pimephales promelas) 96h LC50: 19100 - 23900 mg/L (Lepomis macrochirus) 96h LC50: = 10000 mg/L (Lepomis macrochirus)	No data available	48h EC50: 3940 - 4670 mg/L (Daphnia magna)

Persistence and Degradability No information available.

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Triethylene glycol, monobutyl ether	0.51
Diethylene glycol	-1.98
Poly(oxy-1,2-ethanediyl), .alpha.-butyl-.omega.-hydroxy-	0.436
Diethylene glycol monobutyl ether	1
Diethylene glycol monomethyl ether	-0.47
Diethylene glycol monoethyl ether	-0.8

Mobility No information available.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS



Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

California Waste Codes 331

14. TRANSPORT INFORMATION

DOT NOT REGULATED
Proper Shipping Name NON-REGULATED
Hazard Class N/A

TDG Not applicable

MEX Not applicable

ICAO Not applicable

IATA Not applicable
Proper Shipping Name NON REGULATED
Hazard Class N/A

IMDG/IMO Not applicable
Hazard Class N/A

RID Not applicable

ADR Not applicable

ADN Not applicable

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA Contact supplier for inventory compliance status.
DSL/NDSL Contact supplier for inventory compliance status.
EINECS/ELINCS Contact supplier for inventory compliance status.
ENCS Contact supplier for inventory compliance status.
KECL Contact supplier for inventory compliance status.
PICCS Contact supplier for inventory compliance status.
AICS Contact supplier for inventory compliance status.

Legend



TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US 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, monobutyl ether - 143-22-6	143-22-6	10.5	1.0
Diethylene glycol monobutyl ether - 112-34-5	112-34-5	6.7	1.0
Diethylene glycol monomethyl ether - 111-77-3	111-77-3	3.3	1.0
Diethylene glycol monoethyl ether - 111-90-0	111-90-0	3.3	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

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 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

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Triethylene glycol, monobutyl ether 143-22-6	X		X	X	X
Diethylene glycol 111-46-6			X		
Diethylene glycol monobutyl ether 112-34-5	X		X	X	X
Diethylene glycol monomethyl ether 111-77-3	X	X	X	X	X



Diethylene glycol monoethyl ether 111-90-0	X		X	X	X
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16. OTHER INFORMATION

NFPA	Health hazards 3	Flammability 1	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 3 *	Flammability 1	Physical hazards 0	Personal Protection X
Chronic Hazard Star Legend	* = <i>Chronic Health Hazard</i>			

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Revision Note No information available

Disclaimer

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 a 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

End of Safety Data Sheet

