



DOT 5.1 Brake Fluid

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Not applicable.
CAS No.	Mixture
Trade Name	DOT 5.1 Brake Fluid
Product Code	None

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	Lubricant
Uses Advised Against	None
Company Identification	Finish Line Technologies, Inc. 50 Wireless Blvd. Hauppauge, NY 11788
Telephone	(631) 666-7300
E-Mail (competent person)	SDSinfo@finishlineusa.com

Emergency telephone number

Emergency Phone No.	PROSAR 24 hr: 1-800-217-5157 / 1-651-523-0304 & CHEMTREC 24 hr: 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)
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SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)	Repr. 2
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Label elements

Hazard Symbol



Signal word(s)
Hazard Statement(s)
Precautionary Statement(s)

WARNING

Suspected of damaging fertility or the unborn child.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wash hands and exposed skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
IF exposed or concerned: Get medical advice/attention. Treat symptomatically.
Store locked up.
Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.
Harmful to aquatic life with long lasting effects.

Other hazards



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt.	CAS No.
Proprietary alkyl ester	40 - 70	Trade Secret
Triethylene glycol monomethyl ether	15 - 50	112-35-6
Di-t-butyl-p-cresol	< 1	128-37-0

Additional Information - Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below:

- Contains: <1% Diethylene glycol monomethyl ether (CAS No. 111-77-3) and <1% Monoethanolamine (CAS No. 141-43-5)

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation	Not normally required. Get medical advice/attention if you feel unwell.
Skin Contact	Not normally required. If skin irritation occurs: Get medical advice/attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Get medical advice/attention if you feel unwell.

Most important symptoms and effects, both acute and delayed None known.

Indication of any immediate medical attention and special treatment needed None

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media	Extinguish with carbon dioxide, dry chemical, foam or water spray.
-Unsuitable Extinguishing Media	None known.

Special hazards arising from the substance or mixture None known.

Advice for fire-fighters A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection.

Environmental precautions Avoid run off to waterways and sewers.



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Methods and material for containment and cleaning up Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.

Reference to other sections Wear protective clothing as per section 8.

Additional Information None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling Wash hands and exposed skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Conditions for safe storage, including any incompatibilities

-Storage temperature Store at room temperature.
-Incompatible materials Strong oxidising agents.

Specific end use(s) Lubricant

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		STEL		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Monoethanolamine	141-43-5	-----	3 ppm	-----	6 ppm	-----
Di-t-butyl-p-cresol	128-37-0	-----	2 mg/m3	-----	-----	IFV

IFV = Inhalable fraction and vapor

Recommended monitoring method NIOSH 2007 (Aminoethanol Compounds I); NIOSH 2546 (Cesols and Phenol)

Exposure controls

Appropriate engineering controls Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded.

Personal protection equipment

Eye/face protection



Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/ Other)



Wear protective gloves. (Nitrile rubber)

Respiratory protection



Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely.

Thermal hazards

Not normally required. Use gloves with insulation for thermal protection, when needed.

Environmental Exposure Controls

Avoid release to the environment.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Color	Yellow
Odor	Slight
Odor Threshold (ppm)	Not available
pH (Value)	Not available
Melting Point (°C) / Freezing Point (°C)	Not available
Boiling point/boiling range (°C):	> 265
Flash Point (°C)	> 115
Evaporation Rate	Not available
Flammability (solid, gas)	Not available
Explosive Limit Ranges	Not available
Vapour pressure (Pascal)	Not available
Vapour Density (Air=1)	Not available
Density (g/ml)	ca. 1.07
Solubility (Water)	Slightly soluble.
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	>200
Decomposition Temperature (°C)	Not available
Kinematic Viscosity (cSt @40°C)	Not available
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Other information	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No hazardous reactions known if used for its intended purpose.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None anticipated.
Conditions to avoid	Incompatible materials
Incompatible materials	Strong oxidising agents
Hazardous decomposition product(s)	Combustion or thermal decomposition will evolve toxic and irritant vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Skin Contact, Eye Contact

Substances in preparations / mixtures

Proprietary Alkyl Ester (CAS No. Trade Secret):

Acute toxicity	LD50 (oral,rat) mg/kg: >2000 LD50 (skin,rat) mg/kg: >2000
Skin corrosion/irritation	Unlikely to cause skin irritation.
Serious eye damage/irritation	Unlikely to cause eye irritation.
Respiratory or skin sensitization	It is not a skin sensitizer.
Germ cell mutagenicity	Not to be expected.
Carcinogenicity	Not to be expected.

NTP	IARC	ACGIH	OSHA
No.	No.	No.	No.

Reproductive toxicity	Not to be expected.
STOT - single exposure	Not to be expected.
STOT - repeated exposure	Not to be expected.



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Aspiration hazard

No data.

Di-t-butyl-p-cresol (CAS No. 128-37-0):

Acute toxicity

Oral: LD50 >6000 mg/kg-bw
Dermal: LD50 >2000 mg/kg-bw

Skin corrosion/irritation

Not to be expected.

Serious eye damage/irritation

Not to be expected.

Respiratory or skin sensitization

Not to be expected.

Germ cell mutagenicity

Not to be expected.

Carcinogenicity

Not to be expected.

NTP	IARC	ACGIH	OSHA
No.	No.	No.	No.

Reproductive toxicity

Not to be expected.

STOT - single exposure

Not to be expected.

STOT - repeated exposure

Not to be expected.

Aspiration hazard

No data.

Triethylene glycol monomethyl ether (CAS No. 112-35-6):

Acute toxicity

Oral: LD50 10500 mg/kg-bw
Dermal: LD50 7100 mg/kg-bw

Skin corrosion/irritation

Not to be expected.

Serious eye damage/irritation

Not to be expected.

Respiratory or skin sensitization

Not to be expected.

Germ cell mutagenicity

Not to be expected.

Carcinogenicity

Not to be expected.

NTP	IARC	ACGIH	OSHA
No.	No.	No.	No.

Reproductive toxicity

Contains: Diethylene glycol monomethyl ether (CAS No. 111-77-3). Suspected of damaging fertility or the unborn child.

STOT - single exposure

Not to be expected.

STOT - repeated exposure

Not to be expected.

Aspiration hazard

No data.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Substances in preparations / mixtures

Di-t-butyl-p-cresol (CAS No. 128-37-0):

Short term

LC50 (96 hour): >0.57 mg/L (*Danio rerio*)
LC50 (48 hour): 0.48 mg/L (*Daphnia magna*)
EC50 (96 hour): 0.4 mg/L (Green algae) (Growth rate)

Long Term

NOEC (21 days): 0.07 mg/L (*Daphnia magna*)

Persistence and degradability

Not available

Bioaccumulative potential

The product has low potential for bioaccumulation.

Mobility in soil

The product is predicted to have high mobility in soil.

Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.



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SECTION 14: TRANSPORT INFORMATION

	Land transport (U.S. DOT)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number			
Proper Shipping Name			
Transport hazard class(es)			
Packing group			
Environmental hazards			
Special precautions for user			

Not classified as dangerous for transport

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

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

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed and active, or exempt

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	----	----	----

SARA 311/312 - Hazard Categories: Refer to SECTION 2 – HAZARDS IDENTIFICATION

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
Triethylene glycol monomethyl ether	112-35-6	15 - 50

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	----	----	----

California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
N,N-Diethanolamine	111-42-2	Cancer
2-Methoxyethanol	109-86-4	Developmental, male

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

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