

Released: 2017-12-22

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Supplier:

USA

Version: 1.1 Revision Date: 2024-09-30

1. IDENTIFICATION OF THE SUBSTANCE / APPLICATION AND THE COMPANY

Product Name: DOT 5 Brake Fluid

Maxima Racing Oils Article Number: 80-81916

Applications: Brake Fluid

Emergency Telephone: In USA: CHEMTREC +1 703 527 3887 (24 hours) Outside USA: +1 619 449 5000

2. HAZARDS IDENTIFICATION

GHS Classification

Carcinogenicity: Category 2

GHS Pictogram



Signal Word	Warning!
Hazard Statements	H351 Suspected of causing cancer.
Precautionary	
Statements	
Prevention	P201 Obtain special instructions before use.
	P202 Do not handle until all safety precautions have been read and
	P280 Wear protective gloves.
Response	P308 + P313 IF exposed or concerned: Get medical attention.
Storage	P405 Store locked up.
Disposal	P501 Dispose of contents and container in accordance with local and
	national regulations.
Other Hazards	None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	Content %	CAS Number
Polydimethylsiloxane	90-100	63148-62-9
Tributylphosphate	>0.1-<1	126-73-8

The specific identity and/or exact percentage has been withheld as a trade secret.



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4. FIRST-AID MEASURES	
Inhalation	If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.
Skin Contact	Wash skin with soap and water. Remove clothing and shoes if contaminated. Launder clothing before reuse. If irritation or rash develops, get medical attention.
Eye Contact	Flush eyes with water for several minutes. Remove contact lenses, if present and easy to do so. If eye irritation persists, get medical attention.
Ingestion	If conscious, rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.
Most Important Symptoms	May cause mild eye irritation. Causes mild skin irritation. Inhalation of vapors or mist may cause respiratory irritation. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Indication of Immediate Medical Attention Needed	Immediate medical attention is not required.
Notes to Physician	Treat appropriately
5. FIRE FIGHTING MEAS	URES
Suitable Extinguishing Media Specific Hazards	Use water fog, alcohol foam, dry chemical or carbon dioxide (CO2) to extinguish flames. A solid stream of water or foam can cause frothing. This product is not flammable but may form explosive mixtures in air.
Arising From The Chemical	Combustion will produce carbon oxides, aldehydes and ethers.
Special Protective Equipment And	Firefighters should wear full emergency equipment and approved positive pressure self-contained breathing apparatus. Cool exposed intact
Precautions For Fire- Fighters	containers with water.
6. ACCIDENTAL RELEASE	MEASURES
Personal Precautions	Wear appropriate protective equipment. Wash thoroughly after handling. See also: "Personal Protection "section 8.
Environmental Hazards	Avoid release into the environment. Report spill as required by local and

federal regulations.



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Methods/Materials for	Dike spill and collect with an inert absorbent. Place into closable containers
Cleaning up	for disposal. Collected material is handled in accordance with section 13
	"Disposal Considerations".

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing vapors and mists. Wash thoroughly with soap and water after handling. Remove soaked clothing and launder before re-use.
Conditions for Safe Storage	Store in a cool area away from oxidizing agents. Protect containers from physical damage. Brake fluids absorb water from the atmosphere – always keep containers tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	Polydimethylsiloxane Tributylphosphate	None Established OSHA PEL: 5 mg/m ³ ACGIH TLV: 5 mg/m ³ (IFV)	
Appropriate Engineering Controls	Good general room ventilation (equivalent to outdoors) should be adequate under normal conditions. If the recommended exposure limit is exceeded increased mechanical ventilation such as local exhaust may be required.		
Personal Protection			
Respiratory Protection:	exposure limits are exceeded, use a vapor cartridges and particulate pro protection depends on the contam	nditions with adequate ventilation. If a NIOSH approved respirator with organic e-filter. Selection of respiratory inant type, form and concentration. 10.134 and good Industrial Hygiene	
Eye Protection:	Safety glasses or goggles recommen	nded if splashing is possible.	
Skin/Body Protection:	Appropriate protective clothing as Suitable eye flushing facilities shou Contaminated clothing should be re		
Hand Protection:	Use neoprene or PVC gloves for pro	olonged or repeated skin contact.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid
Color	Usually dyed purple
Odor	Bland
Odor Threshold	N/A – very low odor



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рН	7.0 to 11.5
Freezing Point	<-58°F (-50°C)
Boiling Point	>500°F (260°C)
Flash Point	>302°F (150°C)
Evaporation Rate	Negligible
Flammability (solid, gas)	Not established (non-volatile)
Upper Explosion Limit	No data available
Lower Explosion Limit	No data available
Vapor Pressure	< 2 mbar
Vapor Density (Air=1)	Not established (non-volatile)
Relative Density	0.945-0.965 g/ml @68°F
Solubility	In ethanol: partly soluble; In water: immiscible
Partition Coefficient: n-	Not established
octanol/water	
Auto Ignition	> 752°F (400°C)
Temperature	
Decomposition	> 752°F (400°C)
Temperature	
Volatile Organic	No data available
Compounds (VOC)	
Viscosity	Approx. 35-50 cSt @68°F

10. STABILITY AND REACTIVITY

Reactivity Chemical Stability Possibility of Hazardous	Not expected to be reactive. Stable. None known.	
Reactions		
Conditions to Avoid	Avoid contact with moisture as product is hygroscopic.	
Incompatible Materials	Avoid contact with strong oxidizing agents. For user safety, brake fluid	
	should never be contaminated with any other substance.	
Hazardous Decomposition	Product Thermal decomposition may produce carbon oxides and unidentified organic compounds.	

11. TOXICOLOGICAL INFORMATION

Potential Health Hazards

Eye Contact: May cause mild irritation.

Skin Contact: Prolonged skin contact may cause irritation.

Inhalation: Excessive inhalation of vapors or mists may cause upper respiratory tract irritation. **Ingestion:** Swallowing large amounts may cause gastrointestinal effects including nausea and diarrhea. Tributylphosphate has been shown to cause cancer in animal feeding studies.



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Chronic Effects of Overexposure: None known.

Sensitization: None of the components have been found to cause sensitization in animals or humans. **Mutagenicity:** This product is not expected to cause mutagenic activity.

Reproductive Toxicity: This product is not expected to cause reproductive or developmental effects. **Carcinogenicity**: Product is classified as a carcinogen. Tributylphosphate has been shown to cause cancer in the urinary bladder in rats in feeding studies.

Acute Toxicity:	
Product	Oral rat LD50 >5000 mg/kg, Inhalation rat LC50 NA, Dermal rat LD50
	>3000 mg/kg
Tributylphosphate	Oral rat LD50 300-2000 mg/kg, Inhalation rat LC50 >4.0 mg/L/4 hr,
	Dermal rabbit LD50 >2000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity	96 hr LC50 Goldfish >170 mg/L, 48 hr EC50 water flea >70 mg/L, 72
Tributylphosphate	hr EC50 green algae >20 mg/L
Biodegradation Bioaccumulation	Tributylphosphate is readily biodegradable. Tributylphosphate has a BCF of 21-35 which suggests a low potential for bioaccumulation.
Mobility in soil	The product is not water soluble (floats on water). Limited mobility in soil.
Other adverse effects:	None known.

13. DISPOSAL CONSIDERATIONS

Disposal Dispose in accordance with all local, state and federal regulations.

14. TRANSPORT INFORMATION

	UN	Proper shipping name	Hazard	Packing	Environmental
	Number		Class	Group	Hazard
DOT		Not Regulated			
TDG		Not Regulated			
IMDG		Not Regulated			
ΙΑΤΑ		Not Regulated			

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form

Special precautions: None known.



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15. REGULATORY INFORMATION

CERCLA: This product is not subject to CERCLA reporting requirements, however, oil spills are reportable to the National Response Center under the Clean Water Act and many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

EPA SARA 302: This product does not contain chemicals regulated under SARA Section 302. **EPA SARA 311 Hazard Classification:** Chronic health

EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313: None.

California Proposition 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Chemical Inventories

Toxic Substances Control Act: All of the components of this product are listed on the TSCA inventory

16. OTHER INFORMATION				
NFPA Rating (NFPA 704): HMIS Rating: Chronic health hazard	Health: 2 Health: 2*	Fire: 1 Fire: 1	Instability: 0 Physical Hazard: 0	
Date of Revision: September 30, 2024 Date of Previous Revision: December 22, 2017 Revision History: 12/22/17: New document 9/30/24: Reviewed all sections to ensure they are up to date.				

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.