

Version: 1.0

Released: 2017-12-22 Revision Date: 2017-12-22

1. IDENTIFICATION OF THE SUBSTANCE / APPLICATION AND THE COMPANY

Article Number: 80-81916

Product Name: DOT 5 Brake Fluid Supplier:

Maxima Racing Oils

9266 Abraham Way

Santee, CA 92071

+1 619 449 5000

USA

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 CAS Number Content % 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

Immediate medical attention is not required.

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

Notes to Physician Treat app

Treat appropriately

5. FIRE FIGHTING MEASURES

Suitable Extinguishing

Media

Specific Hazards Arising From The

Chemical

Cileillicai

Special Protective

Equipment And

Precautions For Fire-

Fighters

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.

Combustion will produce carbon oxides, aldehydes and ethers.

Firefighters should wear full emergency equipment and approved positive

pressure self-contained breathing apparatus. Cool exposed intact

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

Cleaning up

Dike spill and collect with an inert absorbent. Place into closable containers 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 None Established

Tributylphosphate OSHA PEL: 5 mg/m³

ACGIH TLV: 5 mg/m³ (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:

None needed under normal use conditions with adequate ventilation. If exposure limits are exceeded, use a NIOSH approved respirator with organic

vapor cartridges and particulate pre-filter. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene

nractice

Eye Protection: Sa **Skin/Body Protection:** Approximately Skin/Body Protection: Approximately Skin/Body Protection:

Safety glasses or goggles recommended if splashing is possible. Appropriate protective clothing as needed to minimize skin contact.

Suitable eye flushing facilities should be available in the work area.

Contaminated clothing should be removed and laundered before re-use.

Hand Protection: Use neoprene or PVC gloves for prolonged 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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pH 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 LimitNo data availableLower Explosion LimitNo 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 Not expected to be reactive.

Chemical Stability Stable. **Possibility of Hazardous** 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

Tributylphosphate 96 hr LC50 Goldfish >170 mg/L, 48 hr EC50 water flea >70 mg/L, 72

hr EC50 green algae >20 mg/L

Biodegradation Tributylphosphate is readily biodegradable.

Bioaccumulation 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			
IATA		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): Health: 2 Fire: 1 Instability: 0 HMIS Rating: Health: 2* Fire: 1 Physical Hazard: 0

Chronic health hazard

Date of Revision: December 22, 2017 Date of Previous Revision: N/A

Revision History:

12/22/17: New document

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.