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

1. IDENTIFICATION OF THE SUBSTANCE / APPLICATION AND THE COMPANY

Supplier: Product Name: DOT 5.1 Brake Fluid

Maxima Racing Oils Article Number: 80-82916

Applications: Brake Fluid

2. HAZARDS IDENTIFICATION

GHS Classification Not classified as hazardous in accordance with

OSHA Hazcom 2012

GHS Pictogram None
Signal Word None
Hazard Statements None

Precautionary Statements

> Prevention None Response None Storage None Disposal None

Other Hazards None

3. COMPOSITION / INFORMATION ON INGREDIENTS

ComponentsContent %CAS NumberPolyglycol ether esters90-100MixtureButylated hydroxytoluene0.1-<0.25</td>128-37-0

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

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.



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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 is not required.

Immediate Medical Attention Needed

Notes to Physician Treat appropriately

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Use water fog, alcohol foam, dry chemical or carbon dioxide (CO2) to

Media extinguish flames. A solid stream of water or foam can cause frothing.

Specific Hazards This product is not flammable but may form explosive mixtures in air.

Arising From The Combustion will produce carbon oxides, aldehydes and ethers.

Chemical

Special Protective Firefighters should wear full emergency equipment and approved positive

Equipment And 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.

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.



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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 Polyglycol ether esters None Established

Butylated hydroxytoluene None Established

Appropriate Good general room ventilation (equivalent to outdoors) should be adequate

Engineering Controls under normal conditions. If the recommended exposure limit is exceeded

increased mechanical ventilation such as local exhaust may be required.

Personal Protection

Respiratory None needed under normal use conditions with adequate ventilation. If **Protection:** 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

practice.

Eye Protection: Safety glasses or goggles recommended if splashing is possible.

Skin/Body Protection: 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 Colorless to amber

Odor Bland

Odor Threshold N/A – very low odor

pH 7.0 to 11.5
Freezing Point <-58°F (-50°C)
Boiling Point >500°F (260°C)
Flash Point >248°F (120°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)



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Relative Density 1.030-1.090 g/ml @68°F

In ethanol: miscible in any ratio; In water: miscible in any ratio Solubility

< 2 (all main ingredients)

Partition Coefficient: n-

octanol/water

Auto Ignition > 572°F (300°C)

Temperature

Decomposition > 572°F (300°C)

Temperature

Volatile Organic No data available

Compounds (VOC)

Viscosity Approx. 5-10 cSt @68°F

10. STABILITY AND REACTIVITY

Reactivity Not expected to be reactive.

Chemical Stability

Glycol ethers can form peroxides on storage. Glycol ethers can react with **Possibility of Hazardous**

Reactions light metals under the evolution of hydrogen gas.

Conditions to Avoid Do not distil to dryness without testing for peroxide formation.

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, aldehydes

and ethers.

11. TOXICOLOGICAL INFORMATION

Potential Health Hazards

Eye Contact: May cause mild irritation.

Skin Contact: Prolonged skin contact may cause irritation. May penetrate the skin.

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.

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: None of the components of this product are listed as a carcinogen or suspected carcinogen by IARC, NTP, or OSHA.

Acute Toxicity:

Product Oral rat LD50 >5000 mg/kg, Inhalation rat LC50 NA, Dermal rat LD50

>3000 mg/kg



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12. ECOLOGICAL INFORMATION

Ecotoxicity

Product 96 hr LC50 Oncorhynchus mykiss >100 mg/L, 48 hr EC50 Daphnia

magna NA, 72 hr EC50 algae NA

Biodegradation The product is inherently biodegradable, and is expected to be readily

biodegradable based on ingredient data (OECD 302B).

Bioaccumulation Log Pow for all main ingredients < 2 which suggests that the potential for

bioaccumulation is low.

Mobility in soil Soluble in water and will partition to aqueous phase. Mobile 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.

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: Not hazardous

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





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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: 1 Fire: 1 Instability: 0 HMIS Rating: Health: 1 Fire: 1 Physical Hazard: 0

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.