

# True Brand DOT 4 Brake Fluid

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations  
Revision Date: 06/03/2019 Date of Issue: 04/30/2010

Version: 2.0

## SECTION 1: IDENTIFICATION

### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** True Brand DOT 4 Brake Fluid

**Product Part #** T8534

### 1.2. Intended Use of the Product

**Use of the Substance/Mixture:** Automotive.

### 1.3. Name, Address, and Telephone of the Responsible Party

#### Company

Solid Start

2801 Saluda Road

Lakeland, FL 33801

863-937-9297

[www.solidstart.com](http://www.solidstart.com)

### 1.4. Emergency Telephone Number

**Emergency Number** : 813-248-0585 ChemTel

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

#### GHS-US Classification

Skin Irrit. 2 H315

Repr. 2 H361

STOT RE 2 H373

Asp. Tox. 1 H304

Full text of hazard classes and H-statements : see Section 16.

### 2.2. Label Elements

#### GHS-US Labeling

##### Hazard Pictograms (GHS-US)



##### Signal Word (GHS-US)

: Warning

##### Hazard Statements (GHS-US)

: H302 - May be harmful if swallowed and enters airways.  
H315 - Causes skin irritation.  
H361 - Suspected of damaging fertility or the unborn child.  
H402 - Harmful to aquatic life.  
H412 - Harmful to aquatic life with long lasting effects.

##### Precautionary Statements (GHS-US)

: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe vapors, mist, or spray.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
P301+P310 - If swallowed: Immediately call a poison center or doctor.  
P302+P352 - If on skin: Wash with plenty of water.  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P314 - Get medical advice/attention if you feel unwell.  
P321 - Specific treatment (see Section 4 on this SDS).  
P331 - Do NOT induce vomiting.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

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## 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

## 2.4. Unknown Acute Toxicity (GHS-US)

No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixture

| Name                                | Product Identifier  | %     |
|-------------------------------------|---------------------|-------|
| Triethylene glycol, monobutyl ether | (CAS-No.) 143-22-6  | 15-30 |
| Diethylene glycol                   | (CAS-No.) 111-46-6  | 15-25 |
| Diethylene glycol monobutyl ether   | (CAS-No.) 112-34-5  | 10-20 |
| Ethanol, 2-(2-propoxyethoxy)        | (CAS-No.) 6881-94-3 | 5-10  |

Full text of H-phrases: see Section 16.

The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First-aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

**First-aid Measures After Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**First-aid Measures After Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**Symptoms/Injuries:** Causes skin irritation. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.

**Symptoms/Injuries After Ingestion:** Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

**Chronic Symptoms:** May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Water spray, dry chemical, foam, carbon dioxide.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Fumes, smoke, oxides of carbon, sodium and hydrocarbons.

**Other Information:** Do not allow run-off from fire fighting to enter drains or water courses.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray. Avoid all contact with skin, eyes, or clothing.

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not breathe mist/vapors/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

### 7.3. Specific End Use(s)

Automotive.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in Section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

| Triethylene glycol, monobutyl ether |                 |
|-------------------------------------|-----------------|
| USA OSHA                            | Not established |
| Diethylene glycol                   |                 |
| USA OSHA                            | Not established |
| Diethylene glycol monobutyl ether   |                 |
| USA OSHA                            | Not established |

### 8.2. Exposure Controls

**Appropriate Engineering Controls**

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

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## Personal Protective Equipment

: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



## Materials for Protective Clothing

: Chemically resistant materials and fabrics.

## Hand Protection

: Wear protective gloves.

## Eye and Face Protection

: Chemical safety goggles.

## Skin and Body Protection

: Wear suitable protective clothing.

## Respiratory Protection

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

## Other Information

: When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

|  |                          |
|--|--------------------------|
| Physical State                         | : Liquid                 |
| Appearance                             | : Clear yellow           |
| Odor                                   | : Mild glycol ether like |
| Odor Threshold                         | : No data available      |
| pH                                     | : 9.5                    |
| Evaporation Rate                       | : No data available      |
| Melting Point                          | : No data available      |
| Freezing Point                         | : No data available      |
| Boiling Point                          | : 245 °C (470 °F)        |
| Flash Point                            | : 116 °C (241 °F)        |
| Auto-ignition Temperature              | : 300 °C (572 °F)        |
| Decomposition Temperature              | : No data available      |
| Flammability (solid, gas)              | : Not applicable         |
| Vapor Pressure                         | : No data available      |
| Relative Vapor Density at 20°C         | : No data available      |
| Relative Density                       | : No data available      |
| Solubility                             | : No data available      |
| Partition Coefficient: N-Octanol/Water | : No data available      |
| Viscosity                              | : No data available      |

### 9.2. Other Information

No additional information available

## SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Hazardous reactions will not occur under normal conditions.
- 10.2. Chemical Stability:** Stable under recommended handling and storage conditions (see Section 7).
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials.
- 10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers.
- 10.6. Hazardous Decomposition Products:** None expected under normal conditions of use.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects

Acute Toxicity: Not classified

|                                     |              |
|-------------------------------------|--------------|
| Triethylene glycol, monobutyl ether |              |
| LD50 Oral Rat                       | > 5300 mg/kg |
| LD50 Dermal Rabbit                  | > 3480 mg/kg |
| Diethylene glycol                   |              |
| LD50 Oral Rat                       | 12565 mg/kg  |

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|  |              |
|--|--------------|
| LD50 Dermal Rabbit                       | 11890 mg/kg  |
| <b>Diethylene glycol monobutyl ether</b> |              |
| LD50 Oral Rat                            | > 4 ml/kg    |
| LD50 Dermal Rabbit                       | > 650 mg/kg  |
| <b>Ethanol, 2-(2-propoxyethoxy)</b>      |              |
| LD50 Oral Rat                            | 8400 mg/kg   |
| LD50 Dermal Rabbit                       | > 2000 mg/kg |

**Skin Corrosion/Irritation:** Causes skin irritation.

**Serious Eye Damage/Irritation:** Not classified

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** May cause genetic defects.

**Carcinogenicity:** May cause cancer.

**Reproductive Toxicity:** Suspected of damaging fertility or the unborn child.

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** May cause damage to organs through prolonged or repeated exposure.

**Aspiration Hazard:** May be fatal if swallowed and enters airways.

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.

**Symptoms/Injuries After Ingestion:** Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

**Chronic Symptoms:** May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecology - General** : Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

|  |   |
|--|---|
| <b>Triethylene glycol, monobutyl ether</b> |   |
| LC50 Fish 1                                | 2400 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])                     |
| EC50 Daphnia 1                             | 500 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                     |
| LC50 Fish 2                                | 500 mg/l (Exposure time: 72 h - Species: Lepomis macrochirus)                               |
| <b>Diethylene glycol</b>                   |   |
| LC50 Fish 1                                | 75200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])                    |
| EC50 Daphnia 1                             | 84000 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                   |
| <b>Diethylene glycol monobutyl ether</b>   |   |
| LC50 Fish 1                                | 7500 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)                              |
| EC50 Daphnia 1                             | 500 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                     |
| <b>Ethanol, 2-(2-propoxyethoxy)</b>        |   |
| LC50 Fish 1                                | 1000 (7.19 - 8.28) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1                             | 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                    |

### 12.2. Persistence and Degradability

|                                      |   |
|--------------------------------------|---|
| <b>True Brand DOT 4 Brake Fluid</b>  |   |
| <b>Persistence and Degradability</b> | This product contains components which may be persistent in the environment |

### 12.3. Bioaccumulative Potential

|                                     |                  |
|-------------------------------------|------------------|
| <b>True Brand DOT 4 Brake Fluid</b> |                  |
| <b>Bioaccumulative Potential</b>    | Not established. |

### 12.4. Mobility in Soil

No additional information available

### 12.5. Other Adverse Effects

**Other Information** : Avoid release to the environment.

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## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste Treatment Methods

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, and international regulations.

**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions.

**Ecology - Waste Materials:** Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

**14.1. In Accordance with DOT** Not regulated for transport

**14.2. In Accordance with IMDG** Not regulated for transport

**14.3. In Accordance with IATA** Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

| True Brand DOT 4 Brake Fluid  |   |
|---|---|
| SARA Section 311/312 Hazard Classes                                       | Health hazard - Aspiration hazard<br>Health hazard - Carcinogenicity<br>Health hazard - Germ cell mutagenicity<br>Health hazard - Reproductive toxicity<br>Health hazard - Skin corrosion or Irritation<br>Health hazard - Specific target organ toxicity (single or repeated exposure) |
| <b>Glycol Ethers)</b>   |   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |   |

### 15.2. US State Regulations

#### California Proposition 65

This product contains chemicals known to the state of California to cause and / or to cause birth defects or other reproductive harm.

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Date of Preparation or Latest Revision** : 06/03/2019

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### GHS Full Text Phrases:

|                                 |  |
|---------------------------------|--|
| Acute Tox. 3 (Dermal)           | Acute toxicity (dermal) Category 3                               |
| Acute Tox. 3 (Inhalation:vapor) | Acute toxicity (inhalation:vapor) Category 3                     |
| Acute Tox. 4 (Inhalation:vapor) | Acute toxicity (inhalation:vapor) Category 4                     |
| Acute Tox. 4 (Oral)             | Acute toxicity (oral) Category 4                                 |
| Aquatic Acute 2                 | Hazardous to the aquatic environment - Acute Hazard Category 2   |
| Aquatic Acute 3                 | Hazardous to the aquatic environment - Acute Hazard Category 3   |
| Aquatic Chronic 2               | Hazardous to the aquatic environment - Chronic Hazard Category 2 |
| Aquatic Chronic 3               | Hazardous to the aquatic environment - Chronic Hazard Category 3 |
| Asp. Tox. 1                     | Aspiration hazard Category 1                                     |
| Carc. 1B                        | Carcinogenicity Category 1B                                      |
| Eye Dam. 1                      | Serious eye damage/eye irritation Category 1                     |
| Eye Irrit. 2A                   | Serious eye damage/eye irritation Category 2A                    |
| Eye Irrit. 2B                   | Serious eye damage/eye irritation Category 2B                    |
| Flam. Liq. 1                    | Flammable liquids Category 1                                     |
| Flam. Liq. 3                    | Flammable liquids Category 3                                     |
| Flam. Liq. 4                    | Flammable liquids Category 4                                     |
| Muta. 1B                        | Germ cell mutagenicity Category 1B                               |

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|               |   |
|---------------|---|
| Repr. 2       | Reproductive toxicity Category 2                                  |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2                              |
| STOT RE 2     | Specific target organ toxicity (repeated exposure) Category 2     |
| STOT SE 3     | Specific target organ toxicity (single exposure) Category 3       |
| STOT SE 3     | Specific target organ toxicity (single exposure) Category 3       |
| H224          | Extremely flammable liquid and vapor                              |
| H226          | Flammable liquid and vapor  |
| H227          | Combustible liquid  |
| H302          | Harmful if swallowed  |
| H304          | May be fatal if swallowed and enters airways                      |
| H311          | Toxic in contact with skin  |
| H315          | Causes skin irritation  |
| H318          | Causes serious eye damage   |
| H319          | Causes serious eye irritation                                     |
| H320          | Causes eye irritation   |
| H331          | Toxic if inhaled  |
| H332          | Harmful if inhaled  |
| H335          | May cause respiratory irritation                                  |
| H336          | May cause drowsiness or dizziness                                 |
| H340          | May cause genetic defects   |
| H350          | May cause cancer  |
| H361          | Suspected of damaging fertility or the unborn child               |
| H373          | May cause damage to organs through prolonged or repeated exposure |
| H401          | Toxic to aquatic life   |
| H402          | Harmful to aquatic life   |
| H411          | Toxic to aquatic life with long lasting effects                   |
| H412          | Harmful to aquatic life with long lasting effects                 |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

SDS US (GHS HazCom)