



# Triton Synthetic Transoil 50

## Material Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Triton Synthetic Transoil 50

**MSDS Code:** 778796

**Intended Use:** Automotive Gear Lubricant

**Responsible Party:** ConocoPhillips Lubricants  
600 N. Dairy Ashford  
Houston, Texas 77079-1175

**Customer Service:** 888-766-7676

**Technical Information:** 800-255-9556

**MSDS Information:** Internet: <http://w3.conocophillips.com/NetMSDS/>

**Emergency Telephone Numbers:** Chemtrec: 800-424-9300 (24 Hours)  
California Poison Control System: 800-356-3219

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

This material is not considered hazardous according to OSHA criteria.

#### NFPA



**Appearance:** Amber  
**Physical Form:** Liquid  
**Odor:** Characteristic petroleum

#### Potential Health Effects

**Eye:** Contact may cause mild eye irritation including stinging, watering, and redness.

**Skin:** Contact may cause mild skin irritation including redness and a burning sensation. No harmful effects from skin absorption are expected.

**Inhalation (Breathing):** Expected to have a low degree of toxicity by inhalation.

**Ingestion (Swallowing):** No harmful effects expected from ingestion.

**Signs and Symptoms:** Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

See Section 11 for additional Toxicity Information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### NON-HAZARDOUS COMPONENTS

| Component                    | CAS         | Concentration (wt %) |
|------------------------------|-------------|----------------------|
| Synthetic Lubricant Base Oil | PROPRIETARY | 75-95                |
| Additives                    | PROPRIETARY | 5-25                 |

## 4. FIRST AID MEASURES

**Eye:** If irritation or redness develops from exposure, flush eyes with clean water. If symptoms persist, seek medical attention.

**Skin:** Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water or a waterless hand cleaner. If irritation or redness develops and persists, seek medical attention.

**Inhalation (Breathing):** First aid is not normally required. If breathing difficulties develop, move victim away from source of exposure and into fresh air. Seek immediate medical attention.

**Ingestion (Swallowing):** First aid is not normally required; however, if swallowed and symptoms develop, seek medical attention.

**Notes to Physician:** Acute aspirations of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

## 5. FIRE-FIGHTING MEASURES

### NFPA 704 Hazard Class

**Health:** 1    **Flammability:** 1    **Instability:** 0            (0-Minimal, 1-Slight, 2-Moderate, 3-Serious, 4-Severe)

**Unusual Fire & Explosion Hazards:** This material may burn, but will not ignite readily. If container is not properly cooled, it can rupture in the heat of a fire. Vapors are heavier than air and can accumulate in low areas.

**Extinguishing Media:** Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

**Fire Fighting Instructions:** For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

**See Section 9 for Flammable Properties including Flash Point and Flammable (Explosive) Limits**

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** This material may burn, but will not ignite readily. Keep all sources of ignition away from spill/release.

**Spill precautions:** Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8).

**Environmental precautions:** Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Spilled material may be absorbed into an appropriate absorbent material.

**Methods for cleaning up:** Immediate cleanup of any spill is recommended. Notify fire authorities and appropriate federal, state, and local agencies. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, notify the National Response Center (phone number 800-424-8802).

## 7. HANDLING AND STORAGE

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**Handling:** Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Section 8).

Do not wear contaminated clothing or shoes. Use good personal hygiene practices.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

**Storage:** Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat and all sources of ignition. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Component                    | ACGIH  | OSHA   | Other: |
|------------------------------|--|--|--------|
| Synthetic Lubricant Base Oil | 5mg/m <sup>3</sup> TWA<br>10 mg/m <sup>3</sup> STEL<br>as Oil Mist, if Generated | 5 mg/m <sup>3</sup> TWA<br>as Oil Mist, if Generated |        |

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

**Engineering controls:** If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits additional engineering controls may be required.

### Personal Protective Equipment (PPE):

**Eye/Face:** Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.

**Skin:** The use of gloves impervious to the specific material handled, such as nitrile, is advised to prevent skin contact and possible irritation (see manufacturers literature for information on permeability).

**Respiratory:** A NIOSH certified air purifying respirator with a Type 95 (R or P) particulate filter may be used under conditions where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a NIOSH approved self-contained breathing apparatus (SCBA) or equivalent operated in a pressure demand or other positive pressure mode if there is potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**Other Protective Equipment:** A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

Suggestions for the use of specific protective materials are based on readily available published data. Users should check with specific manufacturers to confirm the performance of their products.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Note:** Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).

**Appearance:** Amber  
**Physical Form:** Liquid

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|   |   |
|---|---|
| <b>Odor:</b>  | Characteristic petroleum                      |
| <b>Odor Threshold:</b>                                | No data                                       |
| <b>pH:</b>  | Not applicable                                |
| <b>Vapor Pressure:</b>                                | < 1   |
| <b>Vapor Density (air=1):</b>                         | >1  |
| <b>Boiling Point/Range:</b>                           | No data                                       |
| <b>Melting/Freezing Point:</b>                        | No data                                       |
| <b>Solubility in Water:</b>                           | Insoluble                                     |
| <b>Partition Coefficient (n-octanol/water) (Kow):</b> | No data                                       |
| <b>Specific Gravity:</b>                              | 0.85 - 0.87 @ 60°F (15.6°C)                   |
| <b>Bulk Density:</b>                                  | 7.08 - 7.24 lbs/gal                           |
| <b>Viscosity:</b>                                     | 17.0 - 18.5 cSt @ 100°C; 125 - 140 cSt @ 40°C |
| <b>Percent Volatile:</b>                              | Negligible                                    |
| <b>Evaporation Rate (nBuAc=1):</b>                    | No data                                       |
| <b>Flash Point:</b>                                   | 374°F / 190°C                                 |
| <b>Test Method:</b>                                   | Cleveland Open Cup (COC), ASTM D92            |
| <b>LEL (vol % in air):</b>                            | No data                                       |
| <b>UEL (vol % in air):</b>                            | No data                                       |
| <b>Autoignition Temperature:</b>                      | No data                                       |

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Conditions to Avoid:** Extended exposure to high temperatures can cause decomposition.

**Materials to Avoid (Incompatible Materials):** strong acids bases and oxidizing agents Avoid contact with strong oxidizing agents

**Hazardous Decomposition Products:** Combustion can yield oxides of carbon, nitrogen, sulfur and phosphorus Hydrogen sulfide may also be released.

**Hazardous Polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### Chronic Data:

This material has not been identified as a carcinogen by NTP, IARC, or OSHA.

## 12. ECOLOGICAL INFORMATION

Not evaluated.

## 13. DISPOSAL CONSIDERATIONS

The generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and local requirements in addition to federal regulations.

This material, if discarded as produced, would not be a federally regulated RCRA "listed" hazardous waste and is not believed to exhibit characteristics of hazardous waste. See Sections 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties. It is possible that the material as produced contains constituents which are not required to be listed in the MSDS but could affect the hazardous waste determination. Additionally, use which results in chemical or physical change of this material could subject it to regulation as a hazardous waste.

This material under most intended uses would become "Used Oil" due to contamination by physical or chemical impurities. Whenever possible, Recycle Used Oil in accordance with applicable federal and state or local regulations. Container contents should be completely used and containers should be emptied prior to discard.

## 14. TRANSPORTATION INFORMATION

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### U.S. Department of Transportation (DOT)

**Shipping Description:** Not regulated  
**Note:** If shipped by land in a packaging having a capacity of 3,500 gallons or more, the provisions of 49 CFR, Part 130 apply. (Contains oil)

### International Maritime Dangerous Goods (IMDG)

**Shipping Description:** Not regulated  
**Note:** Additional Federal compliance requirements may apply. See 49 CFR 171.12.

### International Civil Aviation Org. / International Air Transport Assoc. (ICAO/IATA)

**Proper Shipping Name:** Not regulated  
**Note:** Additional Federal compliance requirements may apply. See 49 CFR 171.11.

|                                   | LTD. QTY | Passenger Aircraft | Cargo Aircraft Only |
|-----------------------------------|----------|--------------------|---------------------|
| <b>Packaging Instruction #:</b>   | ---      | ---                | ---                 |
| <b>Max. Net Qty. Per Package:</b> | ---      | ---                | ---                 |

## 15. REGULATORY INFORMATION

### CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds):

This material does not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

### CERCLA/SARA - Section 311/312 (Title III Hazard Categories)

**Acute Health:** No  
**Chronic Health:** No  
**Fire Hazard:** No  
**Pressure Hazard:** No  
**Reactive Hazard:** No

### CERCLA/SARA - Section 313 and 40 CFR 372:

This material contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372:

### EPA (CERCLA) Reportable Quantity (in pounds):

This material contains the following chemicals subject to the reporting requirements:

### California Proposition 65:

Warning: This material may contain detectable quantities of the following chemicals, known to the State of California to cause cancer, birth defects or other reproductive harm, and which may be subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

Aniline -- Cancer  
Ethyl Acrylate -- Cancer  
2-Naphthylamine -- Cancer  
1-Naphthylamine -- Cancer

### Canadian Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class  
None

### National Chemical Inventories:

All components are listed on the US TSCA Inventory.  
This product contains one or more components on the NDSL (Non-Domestic Substances List) which are subject to Canada's New Substance Notification requirements if exported quantities of component exceed 1000 kg/yr. All other components are on the DSL.

**U.S. Export Control Classification Number:** EAR99

## 16. OTHER INFORMATION

**Issue Date:** 22-Jan-2007  
**Status:** Final  
**Revised Sections or Basis for Revision:** Periodic review and update  
**MSDS Code:** 778796

### MSDS Legend:

ACGIH = American Conference of Governmental Industrial Hygienists; CAS = Chemical Abstracts Service Registry; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; IARC = International Agency for Research on Cancer; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

### Disclaimer of Expressed and implied Warranties:

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