

OILS

Shell DONAX OIL TC SAE 60 TO-4 TRANSMISSION FLUID
MSDS# 60464E
Version 5.0
Effective Date 07/03/2008
According to OSHA Hazard Communication Standard, 29 CFR
1910.1200

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Material Safety Data Sheet

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1. MATERIAL AND COMPANY IDENTIFICATION

Material Name : Shell DONAX OIL TC SAE 60 TO-4 TRANSMISSION FLUID
Uses : Transmission oil
Manufacturer/Supplier : SOPUS Products
PO BOX 4427
Houston, TX 77210-4427
USA
MSDS Request : 877-276-7285
Emergency Telephone Number : 877-242-7400
Spill Information : 877-504-9351
Health Information : 877-504-9351

2. COMPOSITION/INFORMATION ON INGREDIENTS

Highly refined mineral oils and additives.
The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

3. HAZARDS IDENTIFICATION

Appearance and Odour : Emergency Overview
Red/Brown. Liquid at room temperature. Slight hydrocarbon
Safety Hazards : Not classified as dangerous for supply or conveyance.
Not classified as flammable but will burn.
Environmental Hazards : Not classified as dangerous for the environment.
Health Hazards : Not expected to be a health hazard when used under normal conditions.
Health Hazards Inhalation : Under normal conditions of use, this is not expected to be a primary route of exposure.
Skin Contact : Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.
Eye Contact : May cause slight irritation to eyes.
Ingestion : Low toxicity if swallowed.
Other Information : Used oil may contain harmful impurities.
Signs and Symptoms : Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas.
Ingestion may result in nausea, vomiting and/or diarrhoea.
Aggravated Medical Condition : Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Skin.
Environmental Hazards : Not classified as dangerous for the environment.
Additional Information : Under normal conditions of use or in a foreseeable emergency,

this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

4. FIRST AID MEASURES

General Information : Not expected to be a health hazard when used under normal conditions.
Inhalation : No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.
Skin Contact : Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.
Eye Contact : Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
Ingestion : In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
Advice to Physician : Treat symptomatically.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Flash point : Typical 38 °C / 100 °F (PMCC / ASTM D93)
Upper/lower : Typical 1 - 10 % (V)(based on mineral oil)
Flammability or :
Explosion limits :
Auto ignition temperature : > 320 °C / 608 °F
Specific Hazards : Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.
Suitable Extinguishing Media : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable Extinguishing Media : Do not use water in a jet.
Protective Equipment for Firefighters : Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe all relevant local and international regulations.
Protective measures : Avoid contact with skin and eyes. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
Clean Up Methods : Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an

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Evaporation rate (nBuAc=1) : Data not available

10. STABILITY AND REACTIVITY

- Stability : Stable.
- Conditions to Avoid : Extremes of temperature and direct sunlight.
- Materials to Avoid : Strong oxidising agents.
- Hazardous Decomposition Products : Hazardous decomposition products are not expected to form during normal storage.

- Mobility : Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.
- Persistence/degradability : Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.
- Bioaccumulation : Contains components with the potential to bioaccumulate.
- Other Adverse Effects : Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

11. TOXICOLOGICAL INFORMATION

- Basis for Assessment : Information given is based on data on the components and the toxicology of similar products.
- Acute Oral Toxicity : Expected to be of low toxicity; LD50 > 5000 mg/kg. Rat
- Acute Dermal Toxicity : Expected to be of low toxicity; LD50 > 5000 mg/kg. Rabbit
- Acute Inhalation Toxicity : Low toxicity by inhalation.
- Skin Irritation : Expected to be slightly irritating. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.
- Eye Irritation : Expected to be slightly irritating.
- Respiratory Irritation : Inhalation of vapours or mists may cause irritation.
- Sensitisation : Not expected to be a skin sensitiser.
- Repeated Dose Toxicity : Not expected to be a hazard.
- Mutagenicity : Product considered a mutagenic hazard.
- Carcinogenicity : Product contains mineral oils of types shown to be non-carcinogenic in animal skin-painting studies. Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC). Other components are not known to be associated with carcinogenic effects.

Reproductive and Developmental Toxicity Additional Information

- Reproductive and Developmental Toxicity Additional Information : Not expected to be a hazard.
- Additional Information : Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible.

12. ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

Acute Toxicity

- Acute Toxicity : Poorly soluble mixture. May cause physical fouling of aquatic organisms. Expected to be practically non toxic. LL/EL/L50 > 100 mg/l (to aquatic organisms) (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract). Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.

13. DISPOSAL CONSIDERATIONS

- Material Disposal : Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.
- Container Disposal : Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.
- Local Legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations.

14. TRANSPORT INFORMATION

US Department of Transportation Classification (49CFR)
 This material is not subject to DOT regulations under 49 CFR Parts 171-180.

IMDG

This material is not classified as dangerous under IMDG regulations.

IATA (Country variations may apply)

This material is not classified as dangerous under IATA regulations.

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Federal Regulatory Status

Notification Status

- EINECS : All components listed or polymer exempt.
- TSCA : All components listed.
- DSL : All components listed.