



كونتيننتال الزيوت وزيوت التزييت م م ح Continental Oils & Lubricants F.Z.E.

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Identification of substance / preparation

PRODUCT: CONTEX BRAKE FLUID DOT 5.1

Application

BRAKE FLUIDS

For specific application advice see appropriate Technical Data Sheet.

Company Identification

CONTINENTAL OILS AND LUBRICANTS FZE

P.O. Box 85637, RAK, U.A.E.

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Composition: MIXTURE

COMPONENTS	CAS #	PERCENTAGE
Triethylene glycol monomethyl ether borate ester	30989-05-0	40 - 70
Triethylene glycol monomethyl ether	112-35-6	15 - 50
Tetraethylene glycol monomethyl ether	23783-42-8	<5
Diethylene glycol monomethyl ether	111-77-3	<1
Monoethanolamine	141-43-5	<1
2,6-di-tert-butyl-p-cresol (BHT)	128-37-0	<1

3. HAZARDS IDENTIFICATION

Classification of the substance or mixture: Not classified

GHS LABEL ELEMENTS

- **Signal word:** No signal word.
- **Hazard statements:** No known significant effects or critical hazards.
- Precautionary statements in general: P103 (READ LABEL BEFORE USE), P102 (KEEP OUT OF REACH OF CHILDREN)
- **Prevention:** Not applicable.
- **Response:** Not applicable.
- **Storage:** Not applicable.
- **Disposal:** Not applicable.
- **Other hazards which do not result in classification:** Defatting to the skin.

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4. FIRST-AID MEASURES

Eyes

Wash eye thoroughly with copious quantities of water, ensuring eyelids are held open. Obtain medical advice if any pain or redness develops or persists.

Skin

Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin.

Ingestion

If contamination of the mouth occurs, wash out thoroughly with water. Except as a deliberate act, the ingestion of large amounts of product is unlikely. If it should occur, do not induce vomiting; obtain medical advice.

Inhalation

If inhalation of mists, fumes or vapour causes irritation to the nose or throat, or coughing, remove to fresh air. If symptoms persist obtain medical advice.

Medical Advice

Treatment should in general be symptomatic and directed to relieving any effects.

5. FIRE-FIGHTING MEASURES

Extinguishing media: CO₂, sand, use foam, dry chemicals

Unsuitable extinguishing media: DO NOT USE WATER JET

Combustion Products

Toxic fumes may be evolved on burning or exposure to heat.
See Stability and Reactivity, Section 10 of this Safety Data Sheet.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

PERSONAL PROTECTION: For small spills, wear Natural rubber, Butyl rubber, Nitrile or PVC gloves, glasses/goggles, boots and full-length clothing. During routine operation a respirator is not required. However, if mists or vapours are generated, an approved organic vapour/particulate respirator is required. For large spills, or in confined spaces, a full chemically resistant body-suit is recommended and the atmosphere must be evaluated for oxygen deficiency. If in doubt about potential oxygen deficiency wear self-contained breathing apparatus.

CONTROL MEASURES: Ventilate area and extinguish and/or remove all sources of ignition. Stop the leak if safe to do so. CAUTION: The spilled product will be slippery. Avoid contact with the spilled material.



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EMERGENCY PROCEDURES: In the event of a spill or accidental release, notify the relevant authorities in accordance with all applicable regulations.

ENVIRONMENTAL PRECAUTIONS:

SPILL ADVICE: Do not allow product to enter drains, surface water, sewers or watercourses - inform local authorities if this occurs.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

CONTAINMENT: Contain the spill and absorb with a proprietary absorbent material, sand or earth. For large spills prepare a bund/barrier/dyke ahead of the spill to confine the spill and allow later recovery. If there is the possibility of spills to enter drains, surface water, sewers or watercourses ensure bunding, or that drains are covered, to minimize the potential for this to occur.

CLEANING PROCEDURES: Having contained the spill, as mentioned above, collect all material quickly and place used absorbent in suitable containers. Follow local regulations for the disposal of waste. For large spills that have been banded, the material can be pumped into vessels and returned for reprocessing or destruction. Personnel must wear gloves, goggles or glasses, boots and full-length clothing during cleaning procedures. Wash contaminated area and objects with detergent and water after spill has been cleared. Rinse the cleaned area with water. Do not allow wash water or rinsing's to enter drains, surface water, sewers or water courses.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

SAFE HANDLING: Avoid contact with the product by using appropriate protective equipment such as gloves, glasses or goggles and full-length clothing. Prevent small spills and leakage to avoid slip hazards. Properly dispose of any contaminated rags or cleaning materials in order to prevent fire hazards. Eating, drinking and smoking should be prohibited in the area where this material is handled, stored and processed. Workers should follow good personal hygiene practices, such as washing hands before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Keep containers tightly closed when not in use. Prevent product from entering waterways, drains or sewers.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

SAFE STORAGE: Store in a dry, well ventilated area away from direct sunlight, ignition sources, oxidising agents, foodstuffs, animal feed and clothing. Keep containers closed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store only in original containers. Keep out of reach of children.

INCOMPATIBILITIES: Mineral oils and strong oxidizing substances including strong acids, as well as isocyanates.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

There is no appropriate occupational exposure limit for this material.
Ensure good ventilation.



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Avoid, as far as reasonably practicable, inhalation of vapour, mists or fumes generated during use.

If vapours, mists or fumes are generated, their concentration in the workplace air should be controlled to the lowest reasonably practicable level.

Protective Clothing

Wear face visor or goggles in circumstances where eye contact can accidentally occur.

If skin contact is likely, wear impervious protective clothing and/or gloves.

Protective clothing should be regularly dry-cleaned. Change heavily contaminated clothing as soon as reasonably practicable; dry clean, launder and preferably starch before re-use. Wash any contaminated underlying skin with soap and water.

Respiratory Protection

Respiratory protection is unnecessary, provided the concentration of vapor, mists or fumes is adequately controlled.

The use of respiratory equipment must be strictly in accordance with the manufacturers' instructions and any statutory requirements governing its selection and use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Particulars	Values
Appearance	Clear & Bright
Density @ 20°C	1.07
Viscosity @ -40°C, cSt	820
Viscosity @ 100°C, cSt	2.1
Wet Equilibrium Reflux Boiling Point, °C	185
Equilibrium Reflux Boiling Point, °C	269

10. STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided: Stable if used according to specification. Dangerous reactions: avoid contact with strong bases, strong acids, strong oxidizing substances, perchloric acid, chromyl chloride. Protect from moisture. Products of this type are stable and unlikely to react in a hazardous manner under normal conditions of use.

Materials to Avoid

Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products

Thermal decomposition products will vary with conditions.



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Incomplete combustion will generate smoke, carbon dioxide and hazardous gases, including carbon monoxide, hydrogen sulphide and oxides of sulphur and phosphorus.

11. TOXICOLOGICAL INFORMATION

Eyes

Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.

Skin

Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis.

12. ECOLOGICAL INFORMATION

Comments about ecotoxicity:

Ecotoxicological effects: Biodegradable – more than 85% after 30 days. Degrades faster in the atmospheric environment.

13. DISPOSAL CONSIDERATIONS

Dispose in designated disposal containers, not into effluent or water sources.

14. TRANSPORT INFORMATION

Road (ADR) / Rail (RID) :	Not regulated
Transport by barge (ADNR) :	Not regulated
Marine (IMO-IMDG) :	Not regulated
Air (ICAO / IATA) :	Not regulated

15. REGULATORY INFORMATION

Not classified as hazardous for supply.

This data sheet and the health, safety and environmental information it contains are considered to be accurate as of the date specified below. We have reviewed any information contained herein which we received from sources outside of Company. However, no warranty or representation, express or implied is made as to the accuracy or completeness of the data and information contained in this data sheet.

Health and safety precautions and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission, recommendation or authorization given or implied to practice any patented invention without a valid license. The company shall not be responsible for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.



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16. OTHER INFORMATION

Explanations of R-phrases in section 2 :

R22 -- Harmful if swallowed

R23/24/25 -- Toxic by inhalation, in contact with skin and if swallowed

R33 -- Danger of cumulative effects

R36/38 -- Irritating to eyes and skin

R38 -- Irritating to skin

R41 -- Risk of serious damage to eye

R51/53 -- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R50/53 -- Very toxic to aquatic organisms, may cause long-term adverse effects in aquatic environment

R52/53 -- Harmful to aquatic organisms, may cause long-term adverse effects in aquatic environment

R62 -- Possible risk of impaired fertility

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The Continental Oils and Lubricants shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.

END OF MSDS

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