

ENOC LUBRICANTS

Version No. 1

Revision Date

Authorisation Date 15/12/2001 Product Name **ENOC ULTRA
BRAKE FLUID**

Product Code 223002

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

Product Name	ENOC ULTRA BRAKE FLUID DOT 4		
Viscosity	N/A		
Application	BRAKE AND CLUTCH FLUID		
Company Identification	ENOC International Sales LLC ENOC Complex, Sheikh Rashid Road, P.O. Box: 6442, Dubai		
Telephone	971 4 3374400	Fax	971 4 3134602

2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	ENOC ULTRA BRAKE FLUID DOT 4
CAS number	NA
Chemical Description	Mixture of Glycol Ether
Synonyms	None
Composition/ Ingredients	Mixture of Glycols Ethers & Glycols

Contains the following hazardous products; By-product from the manufacture of 2 -butoxyethanol
(70%) and Diethylene glycol (5%)

3. HAZARDS IDENTIFICATION

Harmful or Fatal if swallowed. May cause irritation to the eyes and skin and respiratory tract. May cause dizziness and drowsiness.

4. FIRST AID MEASURES

General Information	Remove contaminated clothing immediately, to be disposed of or washed before reuse.
Inhalation	If inhaled, as mists, fumes, or vapour causes irritation to the nose and throat or coughing, remove to fresh air. If symptoms persist obtain medical advice.
Skin Contact	Wash skin thoroughly with soap and water as soon as is practicable. Remove contaminated clothing.
Eye Contact	Wash eyes thoroughly ensuring eyelids are held open. Obtain medical advice if any pain or redness develops or persists.
Ingestion	If contamination of the mouth occurs, washout thoroughly with water. Except as a deliberate act, the ingestion of large amounts of product is unlikely. If it should occur, do not induce

5. FIRE FIGHTING MEASURES

Extinguishing Media	Use alcohol resistant foam, water fog or dry powder. DO NOT use water jets.
Special Exposure Hazard	Toxic fumes may be evolved on burning or exposure to heat. See stability and reactivity section 10 of this Safety Data Sheet.
Protective Equipment	Wear self-contained breathing apparatus particularly for fires in confined spaces. Trained personnel should be called to deal with a fire.

6. ACCIDENTAL RELEASE MEASURES

Methods for Cleaning Up	Contain and recover spilled product using absorbent material, (eg sand, sawdust). Protect drains from potential spills. Do not wash waste water into drainage system. In case of large spill inform the relevant authority at once. This product is miscible with water. Remember product spilled will make surfaces slippery.
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7. HANDLING & STORAGE

Advice on Safe Handling	In accordance with good industrial hygienic practices for handling chemicals. Avoid contact with eyes. If splashing is likely to occur wear a full face visor or chemical goggles.
Advice on Protection	Avoid frequent or prolonged skin contact, wash hands thoroughly after contact
Fire & Explosion	Product contaminated rags, paper or absorbent material represent a fire hazard and should not be allowed to accumulate. Dispose of safely immediately after use.
Storage Conditions	Ensure adequate ventilation of storage area. Keep container tightly closed, cool and dry.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Controls	Monitoring of the workplace should be considered in accordance with EH40 (or equivalent) Ensure good ventilation controls. Avoid as far as reasonably practical, inhalation of vapours, mists or fumes. If vapours, mists or fumes are generated, their concentration in the workplace, improved ventilation should be introduced
Engineering Controls	Provide suitable ventilation if necessary
Personal Protection	Observe normal safety standards for handling chemicals. Avoid inhalation of vapour. Avoid contact with skin and eyes. Wear personal protective equipment appropriate for the task eg gloves, respirators (eg if ventilation is inadequate), appropriate overalls. Only use respiratory equipment when there is a high concentration of vapours, it must be used strictly in accordance with the manufacturers instructions.

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9. PHYSICAL & CHEMICAL PROPERTIES

Density at 15°C ASTM D 1298	1032 kg/m ³
Colour	Yellow
Odour	Slightly Oily
Dry Boiling Point	260°C
Flash Point ASTM D 92	Open cup: >120 °C
Viscosity ASTM D 445 @100°C	2.0 mm ² /s
Solubility in water	Completely soluble

10. STABILITY & REACTIVITY

Stability	It is stable and unlikely to react in an hazardous manner under normal conditions
Thermal Decomposition	Hazardous polymerisation reactions will not occur
Conditions To Avoid	Miscible with water, contact with strong mineral or organic acids, contact with oxidising agents
Material To Avoid	Do not use in brake systems requiring mineral oil
Hazardous Reactions	Thermal decomposition products will vary with conditions
Hazardous Decomposition Products	Incomplete combustion will generate smoke, carbon dioxide, carbon monoxide and hazardous gases

11. TOXICOLOGICAL INFORMATION

Eyes	Will be irritating to the eyes
Skin	Unlikely to cause harm to the skin on brief contact but prolonged or repeated exposure may lead to dermatitis
Ingestion	Unlikely to cause harm in small doses. Larger quantities may cause nausea, diarrhoea and symptoms of central nervous system depression including dizziness, drowsiness, headaches and possible loss of consciousness.
Inhalation	At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. It may cause irritation of the eyes, nose and throat due to exposure to vapours.

12. ECOLOGICAL INFORMATION

Mobility	Spillage may penetrate the soil causing ground water contamination
Ecological Information	This product is inherently biodegradable.
Bio-accumulative potential	There is no evidence to suggest bio-accumulation will occur.
Aquatic toxicity	Unlikely to cause long term effects in the aquatic environment.

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Advice on Disposal	In accordance with national and local authority regulations, eg special waste or incineration after consultation with the operators.
Contaminated Packaging	Treat emptied containers in the same way as the product, or if possible wash out thoroughly and recycle.

Transportation Measures	Not classified as hazardous for transport
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Classification & Labelling	Symbol: St. Andrews Cross. Indication of danger: IRRITANT
Risk Phrases	EU Category of danger. A36 Irritating to eyes
Safety Phrases	S2 Keep out of the reach of children. S24/25 Avoid contact with skin and eyes. S26 In cases of contact with eyes, rinse immediately with water and seek medical advice.

Date of Issue 15/12/1997

This information is considered to be accurate as of the date specified and is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirements. It should not be construed as guaranteeing specific properties. Health and safety precautions and environmental advice 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. ENOC shall not be responsible for any damage or injury resulting from abnormal use of the product, from any failure to adhere to recommendations or from any hazards inherent in the nature of the product.