



MATERIAL SAFETY DATA SHEET

(NON-HAZARDOUS/NON-DG)

SECTION -1 -- PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name --- ATLANTIC FRENO BRAKE FLUID DOT 4

Company Identification --- Atlantic Grease and Lubricants FZC – P.O Box 41583, Sharjah, UAE.

Phone Number --- +971 (06) 526-4688

Fax Number --- +971 (06) 526-4699

E-Mail Address --- info@atlanticlubes.com

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Name	CAS	MIN	MAX
Diethylene Glycol Monomethyl Ether	111-77-3	0	2.5
Dimethylene Glycol Monoethyl Ether	111-90-0	0	2.5
Diethylene Glycol Monobutyl Ether	112-34-5	0	3.5
Triethylene Glycol Monomethyl Ether	112-35-6	0	18
Treithylene Glycol Monoethyl Ether	112-50-5	0	14
Triethylene Glycol Monobutyl Ether	143-22-6	0	38

Miscellaneous;	
CHEMICAL NAME	LIMIT VALUES
Diethylene Glycol Monobutyl Ether	N/A
Diethylene Glycol Monoethyl Ether	N/A
Diethylene Glycol Monomethyl Ether	N/A
Triethylene Glycol Monobutyl Ether	N/A
Triethylene Glycol Monoethyl Ether	N/A
Triethylene Glycol Monomethyl Ether	N/A

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW;

NFPA: Health; 2 Fire; 1 Reactivity; 0 Specific Hazard; N/A

HMIS: Health 2 Flammability; 1 Reactivity; 0 PPE: B

Miscellaneous;

This product does not contain any components above de minimus concentrations that are considered carcinogenic by OSHA, IARC or NTP.

POTENTIAL HEALTH EFFECTS

Target Organs/Primary Route (s) of Entry;

Eye;

May cause moderate to severe irritation and moderate transient corneal injury depending upon concentration of the glycol ether.

Skin;

May cause irritation if left in contact with skin. Contact with large areas of skin for extended periods of time may result in absorption of toxic amounts.

Ingestion;

May cause irritation of the GI tract and central nervous system disturbances.

Inhalation;

Inhalation of mists may cause respiratory tract irritation, and central nervous system effects including; headache, narcosis, weakness, slurred speech and blurred vision.

Miscellaneous;



SECTION 4 - FIRST AID MEASURES

Eye: If the product contacts the eyes, immediately wash the eyes with large quantities of room temperature water for at least 15 minutes, occasionally lifting the lower and upper lids. Get medical attention immediately. A follow up visit to an ophthalmologist should be made.

Skin:

If the product contacts the skin, promptly wash the contaminated skin with soap and water for at least 15 minutes. If the product penetrates the clothing, promptly remove the clothing and wash the skin with soap and water.

Ingestion;

If this product is ingested and the person is conscious, have patient drink several glasses of water. Induce vomiting by having patient tickle back of throat with finger, keep airway clear. GET IMMEDIATE MEDICAL ATTENTION.

Inhalation;

Move the exposed person to fresh air at once and call emergency medical care.

If breathing has stopped, give artificial respiration. If breathing is difficult, give humidified oxygen.

Notes to Physician;

No data available.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point; GT 250 F. (GT 121 C.) PMCC

Auto ignition Temperature; N/A

Flammable Limits

Lower Limit; Explosive Limit (LEL); N/A

Upper Limit; Explosive Limit (UEL); N/A

Extinguishing Media;

Use water spray, alcohol foam, dry chemical, or carbon dioxide.

Unusual Fire and Explosion Hazards;

Water or foam may cause frothing.

Special Fire Fighting Procedures;

Wear NIOSH approved SCBA respirator in the positive pressure mode and chemical protective clothing.

General Information;

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Small Spill; remove sources of heat or ignition, provide adequate ventilation, contain leak using absorbent, inert, non-combustible material.

Large Spill; Contain spill, transfer to secure containers. In the event of an uncontrolled material release, the user should determine if release is reportable under applicable laws and regulations.

SECTION 7 - HANDLING AND STORAGE

Handling;

See other sections of MSDS.

Storage;

See other sections of MSDS.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

GENERAL HYGIENE CONSIDERATIONS;

Use normal hygiene practices.



OTHER PRECAUTIONS;

None

ENGINEERING CONTROLS;

Local Exhaust; provide local ventilation to maintain exposure levels below recommended exposure limits.

Mechanical (General); In confined spaces, mechanical ventilation may be required.

Special Ventilation; N/A

Other Ventilation; N/A

PERSONAL PROTECTIVE EQUIPMENT

Eyes/face;

Use splash proof chemical, safety glasses or appropriate full-face respirator.

Skin;

Use chemical resistant gloves such as butyl rubber or PVC coated as required.

Respirators;

If high vapor or mist concentrations are expected, use appropriate NIOSH approved respirator for organic vapors and mists. Respirators must be selected based on airborne levels found in workplace and must not exceed the working limits of the respirator.

Other Protective Clothing/Equipment;

If there is a possibility of exposure of an individual's body to the lubricating oil, wear body covering clothes to avoid prolonged or repeated exposure.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor;

Amber color, clear liquid, mild odor.

pH; 8.5 - 10.0

Vapor Pressure; (MM HG); N/A

Vapor Density (Air=1): GT 1.0

Evaporation Rate; N/A

Viscosity; N/A

Boiling Point; GT 450 F (GT 232 C.)

Freezing/Melting Point; N/A

Decomposition Temperature; N/A

Solubility in Water; Soluble

Specific Gravity; 1.10

Molecular Formula; N/A

Molecular Weight; N/A

VOC Coating (minus water): 0 Lbs/Gallon

Coating Density; 0 Lbs/Gallon

Solvent Density; 0 Lbs/Gallon

Percent Solvent (volume): 0

Percent Solids (volume); 0

Percent Water (volume): 0

Percent Volatile by weight; 0

Miscellaneous;

% Volatile/Volume; N/A

Percent Solvent (Volume): N/A

Percent Solids (Volume); N/A

Percent Water (Volume): N/A

Poly glycol based product containing a proprietary inhibitor package.

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability;

Stable; Yes

Conditions to Avoid; Store in a cool, dry, well ventilated area. Keep away from heat, sparks, and flame.

Avoid open heating or agitation; keep container tightly closed when not in use.

Incompatibilities with Other Materials;



(Materials to avoid): Avoid contact with strong oxidizers and high oxygen concentrations.
Hazardous Decomposition Products;
Incomplete combustion can generate carbon monoxide and/or oxygenated hydrocarbons.
Hazardous Polymerization;
Hazardous Polymerization May Occur; No

SECTION 11 - TOXICOLOGICAL INFORMATION

No data available.

SECTION 12 - ECOLOGICAL INFORMATION

No data available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of recovered non usable product in a manner approved for this material.
Discarded material is not a RCRA hazardous waste. Before attempting clean up, refer to other sections of the MSDS and dispose of product in accordance with local, state, and federal regulations.

SECTION 14 - TRANSPORT INFORMATION

Transportation Information;
Shipping Information (CFR and IMDG):

Proper Shipping Name; Glycols, poly
DOT Hazard Class; None Required
DOT UN Number; None required.
IMDG Shipping Name; Brake Fluid, Hydraulic (Flash point GT250F)
Label Information;
No data available.

SECTION 15 - REGULATORY INFORMATION

SARA Title III;

Section 302; None
Section 304; None
Section 311; Hazard categories - Immediate Acute Health = Yes and Delayed
Chronic Health = Yes
Section 313; None

CERCLA:

Section 311 (b) (4); Requires discharges of crude oil and petroleum products in any kind or form to waters must immediately be reported to the National Response

Center at (800) 424-8802.

SECTION 16 - ADDITIONAL INFORMATION

Disclaimer; Information presented herein is believed to be factual, as it has been derived from the works and opinions of persons believed to be qualified experts.