

MATERIAL SAFETY DATA SHEET

Oct. 2012

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name Moly Green Brake Fluid (DOT4)
 Recommended use Brake Fluid
 Manufacturer ETHYLENE CHEMICAL Co., Ltd.
 Address 12-28 Goi-minamikaigan Ichihara-City Chiba-Prefecture
 Japan 〒290-0045
 Telephone 0436-22-1215
 Emergency Telephone 0436-22-1215

SECTION 2 HAZARD IDENTIFICATION

Classification of the substance or mixture

Skin Corrosion/Irritation Category 3
 Eye Irritation Category 2A
 Germ Cell Mutagenicity Category 2
 Specific Target Organ Systemic Toxicity Repeated Exposure Category 1

GHS label elements, including precautionary statements



Signal Word
 Danger

Precautionary statements

Causes mild skin irritation
 Causes serious eye irritation
 Suspected of causing genetic defects
 Causes damage to organs through prolonged or repeated exposure (Liver and Kidney)

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Composition

Substances Name	CAS No.	Blending Ratio wt%
Polyoxy alkylene glycol mono alkylether, and Borate of polyoxyalkylene glycol mono alkyl ether mixture	73398-63-7 68441-44-1	84 ~ 90
Di Ethylene glycol	111-46-6	4 ~ 10
Polypropylene glyceryl ether	29781-96-2	< 5
Corrosion inhibitor		< 1
TOTAL		100

SECTION 4 FIRST-AID MEASURES

Inhalation Remove to fresh air. Get immediate medical help.
 Eye Contact Flush thoroughly with water for 15 minutes.
 Consult physician if irritation continues.

Skin Contact Immediately remove contaminated clothing and wash soap and water.
 Ingestion Induce vomiting and get immediate medical help.
 Note Treat symptomatically.

SECTION 5 FIRE-FIGHTING MEASURES

Flash point (COC) °C	142
Extinguishing Media	Carbon dioxide, Foam or Dry chemical
Autoignition tempt., °C	Not Determined.
Flammability limits:	Not Determined.
Special fire fighting procedures:	Recommend wearing self-contained breathing apparatus.
Unusual fire & explosion hazards:	Toxic fumes, gases or vapors may evolve on burning.
Explosion data:	Material does not have explosive properties.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Steps to be taken in case the material is spilled or released:
 Clean up releases as soon as possible. Contain liquid to prevent further contamination of soil, surface water or groundwater. Clean up small spills using appropriate techniques such as sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

SECTION 7 HANDLING AND STORAGE

Precaution to be taken in handling and storage:
 Keep containers tightly closed when not in use.
 Store only in closed, properly labeled containers.
 Avoid contamination of oil.
 Do not drink.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection:	Chemical type
Skin Protection:	Avoid prolonged or frequently repeated skin contact by wearing impervious protective clothing including gloves.
Respiratory Protection:	Wear a breathing
Ventilation:	No special ventilation is usually necessary. However, if operating conditions create high air borne concentrations of this material, special ventilation may be needed.
Other clothing and Equipment:	No special clothing or equipment is usually necessary.
Work practices, hygienic practices:	No information is available.
Other handling and storage requirements:	No information is available.
Protective measures during maintenance of contaminated	No Data Available.

SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

Boiling point °C	265
pH (50vol%)	8.2
Density (15°C g/cm ³)	1.05
Flash point (COC) °C	142
Vapor Pressure (20°C Pa)	no data
Appearance	Colorless to slight yellow fluid

Odor

Slight odor

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability Stable
Hazardous polymerization Will not occur
Condition to Avoid Avoid open flames
Incompatibility (materials to avoid): Acids. Oxidizing agents. Halogens and halogenated compounds.
Hazardous Decomposition Products None

SECTION 11 TOXICOLOGICAL INFORMATION

Toxicity Data

There is no data available of this product.

Di Ethylene glycol

GERM CELL MUTAGENICITY Category 2

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY REPEATED EXPOSURE Category 1
(Liver and Kidney)

SECTION 12 ECOLOGICAL INFORMATION

Biodegradation: No Data Available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal Method: Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.

SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations.

UN Number: Not applicable.

SECTION 15 REGULATORY INFORMATION

The U.S.TSCA inventory: One or more components of this products is not listed on
The EC EINECS inventory: the each inventory.

SECTION 16 OTHER INFORMATION

None

Material safety data sheets are provided as reference information on the safe handling of hazardous or harmful materials to companies using such materials. When referring to this data sheet, companies should remember that they must take responsibility for implementing the proper measures for their own particular situations. This data sheet is not a guarantee of safety.