PETROMATE BRAKE AND CLUTCH FLUID

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE

COMPANY

Product Name PETROMATE BRAKE AND CLUTCH FLUID

Product Type Glycol Compounds and Additives

Recommended Use Hydraulic Brake Fluid

Company Information PETRON CORPORATION

San Miguel Head Office Complex

40 San Miguel Avenue, Mandaluyong City

PHILIPPINES

General Contact Numbers (632) 802-7777

Website www.petron.com

SECTION 2: HAZARDS IDENTIFICATION

GHS LABELING Flammable Liquids, Category 4

Acute Toxicity - Oral, Category 5
Acute Toxicity - Inhalation, Category 4
Skin Corrosion/Irritation, Category 3

Serious Eye Damage/Eye Irritation, Category 2B

Carcinogenicity, Category 2 Specific Target Organ Toxicity

(Repeated Exposure) Category 2 (Skin, lungs, blood, liver, CNS, stomach)

Hazardous to the Aquatic Environment Acute Hazard, Category 3 Chronic Hazard, Category 3

GHS LABELING

Symbol(s)



Signal Word Warning

Hazard Statements H227 Combustible liquid

H303 May be harmful if swallowed

H332 Harmful if inhaled

H316 Causes mild skin irritation H320 Causes eye irritation

H351 Suspected of causing cancer

H373 May cause damage to organs (skin, lungs, blood, liver, CNS) through

prolonged or repeated exposure

H412 Harmful to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS

General Precautionary Statements

P101 If medical advice is needed, have product container or label at hand



P102	Keep out of reach of children
P103	Read label before use

Prevention Precautionary Statements

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Keep away from heat/sparks/open flames/hot surfaces. No smoking
Avoid breathing fume/vapor
Use only outdoors or in a well-ventilated area
Avoid release to the environment
Wear protective gloves/protective clothing/ eye protection/ face protection
Use personal protective equipment as required

Response Precautionary Statements

P301 + P310 + P331	IF SWALLOWED: Immediately call a Poison Center or doctor/physician. Do not induce
	vomiting
P304 + P312	IF INHALED: Call a Poison Center or doctor/physician if you feel unwell
P308 + P313	If exposed or concerned: Get medical advice/attention
P312	Call a Poison Center or doctor/physician if you feel unwell
P370 + P378	In case of fire: use foam, carbon dioxide or dry chemical extinguishers for extinction

Storage Precautionary Statements

P403 + P235	Store in well-ventilated place, Keep Cool
P405	Store locked up

Disposal Precautionary Statement

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

The product contains the following components; polyethylene glycols, polyglycol ethers, and glycol ether esters with added corrosion and oxidation inhibitors.

In general, the product contain components that may be a significant health and safety hazard thus proper handling and observing precautions must be observed and good standards of industrial and personal hygiene must be maintained.

SECTION 4:	FIRST AID MEASURES
Eye Contact Skin Contact	Rinse eyes immediately with plenty of water for at least 15 minutes or until irritation subside. If irritation persists, get prompt medical attention. Immediately clean contaminated skin with soap and water. Remove
	contaminated clothing, including shoes, and launder before reuse.
Ingestion	If swallowed, DO NOT induce vomiting. Keep at rest and call for medical attention if large amount of the product is ingested.
Inhalation	If overexposed to vapors, remove affected person immediately to fresh air. Administer artificial respiration if breathing is irregular or has stopped. Call for prompt medical attention.
SECTION 5:	FIRE-FIGHTING MEASURES
Flash Point, °C	116
Ignition Temperature, ⁰ C	>300



Extinguishing Media According to the US National Fire Protection Association Guide, use water

spray, dry chemical, foam, or carbon dioxide. Water or foam may cause frothing. Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for

personal attempting to stop the leak.

Special Fire-fighting Procedures Cool fire-exposed storage containers with water to prevent frothing. Fire

fighting should be done with necessary personnel protective equipment.

Explosion Hazards For fires involving this material, do not enter any enclosed or confined space

without self-contained breathing apparatus to protect against the hazardous

effects of combustion products or oxygen deficiency.

SECTION 6: ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES

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

SPILL MANAGEMENT

Land Spill: Taking normal safety precaution, shut off source of product. Prevent the liquid from

entering sewers, water courses or low lying areas. Advise the relevant authorities, taking measures to minimize the effects on ground water. Contain spilled liquid with sand or earth. Recover as much spill as possible for disposal. Wash residue or small spills with

copious water.

Water Spill: Because the product is water soluble, spills must be confined immediately. Remove

quickly from the water surface by skimming or with suitable absorbents. If permitted by local authorities and environmental agencies, disperse the residue in unconfined waters. Consult an expert on disposal of recovered material and ensure conformity to local

disposal regulations.

SECTION 7: HANDLING AND STORAGE

Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Controls

Components	Source	Value
Glycol Ethers	ACGIH	100 mg/m ³ (STEL)

Personal Protection

Ventilation Procedures The use of local exhaust ventilation is recommended to control mists or

vapors. Additional ventilation or exhaust may be required to maintain air

concentrations below exposure limits.

vapor and high efficiency filter cartridge if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.



Hand Protection Use chemical resistant gloves.

Eye Protection Where contact may occur, wear safety glasses with side shields.

Clothing Recommendation Wear either a chemical protective suit or apron when potential for contact

with material exists. Use neoprene or nitrile rubber boots when necessary to avoid contaminating shoes. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction.

SECTION 9:

PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear

Odor Characteristic of glycols

Kinematic Viscosity at 40°C, cSt 2.011

Kinematic Viscosity at 100°C, cSt No data

Specific Gravity at 60°F 1.0510

Flash Point, °C 116

pH 7 – 11 (undiluted)

Boiling Point, °C No data Melting Point, °C No data

Vapor Pressure, kPa Not Applicable
Vapor Density None Determined

Solubility in Water Soluble

Evaporation Rate None Determined Flammability Not Flammable

SECTION 10: STABILITY AND REACTIVITY

Stability Material is normally stable at ambient temperature. Avoid temperatures

above flash point.

Incompatibility Incompatible with strong oxidizing agents

Polymerization Not Applicable

Hazardous Decomposition

Products

In case of combustion or thermal decomposition, carbon monoxide and

other harmful gases may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

Route of Exposure Conclusion / Remarks

Inhalation Minimal toxicity

Ingestion - Toxicity (Rat):

Ethylene Glycol: LD50 - 4700 mg/kg

Minimal toxicity

Skin - Toxicity (Rabbit):



Ehtylene Glycol: LD50 - 9530 mg/kg Low order of toxicity. Frequent or prolonged contact may cause

mild skin discomfort.

Eye - Irritation:

Data not available. Will cause eye discomfort; may injure eye tissue if not removed

promptly.

This product contains polyalkylene glycols, polyalkyne glycol ethers, and ether esters. Reported effects include kidney damage from high does or from prolonged or repeated exposure. While normal use of this material should not result in any adverse effects, we strongly recommend that the precautions outlined in this MSDS be followed to minimize skin contact and keep inhalation of mists to a minimum.

ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY No data

MOBILITY Oil component of this product floats and can migrate from water to land.

PERSISTENCE AND DEGRADABILITY

Biodegradation: This product is expected to have a moderate (more than or equal to 30%) rate of

biodegradation, and a low potential to bioaccumulate

BIOACCUMULATION

POTENTIAL Data have not been determined specifically for this product, but it is expected to

be harmful to aquatic organisms.

SECTION 13:	DISPOSAL CONSIDERATIONS
Waste Disposal	Check governmental regulations and local authorities for approved disposal of this material.
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RemarksReleases of this product should be prevented from containing soil, and from entering drainage, sewer systems, and all bodies of water.

SECTION 14:	TRANSPORT INFORMATION
Land	This product is not regulated for road/rail transport
Sea	IMDG (Packaged Goods and BLCs). This product is not regulated for sea transport
Air	(ICAO/IATA). This product is not regulated for air transport.

SECTION 15: REGULATORY INFORMATION

Material is hazardous chemical under Occupational Safety and Health (Classification, Labeling, and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.



Material is not hazardous as defined by the Occupational Safety and Health (Classification and Labeling of Hazardous Chemicals) Regulations.

ClassificationNot RegulatedLabelingNot Regulated

SECTION 16: OTHER INFORMATION

Approvals Research and Development Department

Petron Corporation

This safety data sheet contains the following revisions:

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