

PETRON BRAKE FLUID HTP DOT 4

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product Name	PETRON BRAKE FLUID HTP DOT 4
Synonyms/Trade Name:	-
Product Type	Synthetic Hydrocarbons with Additives
Recommended Use	Brake Fluid for Automotive
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 CLASSIFICATION	Skin Corrosion/Irritation, Category 1 Specific Target Organ Toxicity Repeated Exposure, Category 2 (Kidney)
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GHS LABELING



Symbols

Signal Word Danger

Hazard Statement	H318	Causes serious eye damage
	H371	May cause damage to organs (kidney) through prolonged or repeated exposure

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



- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P264 Wash hands thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear protective gloves/protective clothing
- P281 Use personal protective equipment as required

Response Precautionary Statements

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water
- P304 + P340 IF INHALED: Remove victim to a fresh air and keep at rest in a position comfortable for breathing
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 IF exposed or concerned: Get medical advice/attention
- P309 + P311 If exposed or if you feel unwell: Call a POISON CENTER or doctor/physician
- P312 Call a Poison Center or Physician if you feel unwell
- P314 Get medical advice/attention if you feel unwell
- P332 + P313 If skin irritation occurs: get medical advice/attention
- P337 + P313 If eye irritation persists: Get medical advice/attention

Storage Precautionary Statements

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed
- 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

Composition	CAS Number	% Weight
Triethyleneglycol Monobutylether	143-22-6	60-70
Diethylene Glycol (DEG)	111-46-6	25-35
Glycol Ether		5-7
Dicyclohexylamine	101-83-7	<1
BHT (2,6,-di-tert-butyl-4-methylphenol	128-37-0	<1

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

SECTION 4: FIRST AID MEASURES

Eye Contact Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport



to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide while rinsing. If eye irritation persists, consult a specialist.

Skin Contact

Immediately flush with large amount of water; use soap if available. Remove contaminated clothing, including shoes, and launder before reuse.

Ingestion

Clean mouth with water and drink afterwards plenty of water. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Take victim immediately to hospital. If symptoms persist, call a medical doctor.

Inhalation

If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a medical doctor.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point, COC, °C

>100

Extinguishing Media

In case of fire use foam, carbon dioxide or dry chemical extinguishers.

Special Fire-fighting Procedures

Water jets should not be used directly on igniting products. Avoid spraying water directly into storage containers due to danger of boil-over. However, water may be used to cool exposed containers, structures and equipment adjacent to fire. Respiratory and eye protection required for fire-fighting personnel.

Decomposition Products Under Fire Conditions

Fumes, smoke, oxides of sulfur, nitrogen, carbon and other toxic gases may be formed.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Protective Measures:

Avoid contact with skin and eyes. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches, or rivers by using sand, earth, or other appropriate barriers.

Personal Precautions:

Wear personal protective equipment (PPE) when working.

Clean Up Methods:

Soak up with appropriate absorbent material and dispose of as hazardous waste. Keep in suitable, closed container for disposal. In case of spillage in large quantity, enclose with embankment to prevent spreading of spillage and collect spillage in empty container to the extent possible.

Prevention of second accident:

In case of spillage, immediately inform the person-in-charge (PIC) to prevent possible accidents and spreading of spillage. Remove spillage completely, and ventilate and clean the site and the surroundings.

Environmental Precautions:

Prevent product from entering drains, If the product contaminates rivers and lakes or drains, inform respective authorities.



SECTION 7: HANDLING AND STORAGE

Handling Procedures

Use pumps or other proper equipment for taking out from container. Do not siphon with your mouth using a tube.

When mist is generated, use respiratory equipment to prevent inhalation of mist.

Maintain adequate ventilation when handling indoors.

Avoid rough handling of containers such as falling, dropping, exposing to shock and dragging.

Wear protective glove when opening containers to eliminate a risk of hand injury.

Storage Procedures

Store tightly after use to prevent possible contamination with dust and moisture.

Keep container tightly closed and in a cool well-ventilated place. Use properly labeled and closable container.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

Personal Protection

Respiratory Protection

No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material.

Skin Protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with the product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH.

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 petroleum products
Specific Gravity at 60°F	1.02
Flash Point, °C	218
pH	8.4 – 10.4
Boiling Point, °C	>200
Melting Point, °C	No data
Vapor Pressure, kPa	No data
Vapor Density	No data
Solubility in Water	Insoluble
Evaporation Rate	No data
Flammability	Not flammable
Partition Coefficient	No data
Auto-ignition Temperature, °C	No data
Decomposition Temperature, °C	No data
Explosion limits	No data

SECTION 10: STABILITY AND REACTIVITY

Stability	This product is stable and hazardous polymerization will not occur.
Incompatibility	No data available
Polymerization	Not Applicable

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral ATEmix	> 50,000 mg/li
Dermal	No Data Available
Inhalation	No Data Available

Triethyleneglycolmonobutylether

Acute Toxicity (Oral)	LD50 (Rat): 5,300 mg/kg
Acute Toxicity (Inhalation)	LD50 (Rat): 2,400 mg/kg (Exposure Time: 8h)
Acute Toxicity (Dermal)	LD50 (rabbit): 3,490 mg/kg

Diethylene Glycol

Acute Toxicity (Oral)	LD50 (Rat): 12,600 mg/kg
Acute Toxicity (Inhalation)	LD50 (Rat): >4.6 mg/li (Exposure Time: 4h)
Acute Toxicity (Dermal)	No Data Available

Dicyclohexylamine

Acute Toxicity (Oral)	
Reactivity	No Data Available

Chronic Toxicity

Conditions to Avoid	Extremes of temperature and direct sunlight
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Incompatible Material No Data Available



Hazardous Decomposition Product	No Data Available
Possibility of Hazardous Reaction	No Data Available

SECTION 12: ECOLOGICAL INFORMATION

Eco-toxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

Environmental Mobility	Oil component of this product floats and can migrate from water to land.
Environmental Degradability	Data have not been determined specifically for this product, but it is not expected that it will be “readily” biodegradable.
Ecotoxicity & Bioaccumulation	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	Dispose of content / container in accordance with local / regional / national / international regulations. Every customer/users of the product should dispose of industrial waste on its own responsibility; otherwise it must rely on a company authorized by prefectural governor for treating industrial waste or a local public body involved in the disposal of industrial waste for proper disposal.
Contaminated Packaging	Empty remaining contents. Dispose of a unused products.

SECTION 14: TRANSPORT INFORMATION

UN Number	Not regulated as a dangerous goods
UNRTDG	Not regulated as a dangerous goods
IATA-DGR	Not regulated as a dangerous goods
IMDG-Code	Not regulated as a dangerous goods
Transportation Hazard Class (es)	Not regulated as a dangerous goods
Packaging Group	Not regulated as a dangerous goods
Environmental Hazards	Not regulated as a dangerous goods
Precaution of Transportation	Not regulated as dangerous goods
Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated as dangerous goods

SECTION 15: REGULATORY INFORMATION

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

The chemical substances present in this product are listed under Philippine Inventory of Chemicals and Chemical Substances (PICCS).



SECTION 16:**OTHER INFORMATION**

ApprovalsResearch and Development Department
Petron CorporationThis safety data sheet contains the following revisions: **0**

This is a computer-generated form and does not require a signature.

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