

Safety Data Sheet

No : L036

CPC HD Brake Fluid

Ver. 4.1

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: CPC HD Brake Fluid

Product Code: LB39701

Manufacturer Name: Lubricants Business Division, CPC Corporation, Taiwan
Address: 6F, 15, Cheng-Kung 2nd RD, Chen-Zerng District, Kaohsiung, 806, Taiwan, R.O.C.
Telephone Number: 886-7-5361510

Emergency Telephone Number: 886-5-2224171 Ext. 7250 or 6666
Fax Number: 886-5-2232062

III. HAZARDS IDENTIFICATION

NFPA Ratings (Scale 0-4) : No information is available.

Symbol:



The Most Important Hazardous Effects:

1. Adverse Human Health Effects:

(For Long Term Exposure)

- Eye Contact: Irritation.
- Skin Contact: No information is available.
- Inhalation: Headache, dizziness and drowsiness.
- Ingestion: Liver damage, kidney damage, nerve damage.

2. Environmental Effects: No information is available.

3. Physical and Chemical Hazards: No information is available.

4. Specific Hazards: No information is available.

Main Symptoms:

- Eye Contact: Irritation.
- Skin Contact: No information is available.
- Inhalation: Vomiting, headache, dizziness and drowsiness.
- Ingestion: Nausea, vomiting, stomach pain, drowsiness.

III.COMPOSITION, INFORMATION ON INGREDIENTS

1. Product Identification:

Chemical Family: Glycols, Polymer.

Chemical Formula: Mixture.

Trade Name/Synonym: Not assigned.

2. Components:

| Ingredients | CAS Number | %by vol. |
|-------------------|------------|----------|
| Diethylene Glycol | 111-46-6 | 20 |

IV. FIRST AID MEASURES

Emergency Procedures:

- Inhalation:
When safe to enter area, remove from exposure immediately. If breathing is difficult, give oxygen. If breathing ceases, use an oxygen rescuer or similar device to perform artificial respiration. Seek immediate medical attention.
- Skin Contact:
Remove contaminated clothing, jewelry and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15~20 minutes) . If irritation or adverse symptoms develop, seek medical attention.
- Eye Contact:
Flush eyes immediately with running water for at least fifteen minutes, occasionally lifting upper and lower lids, until no evidence of chemical remains. Seek immediate medical attention.
- Digestion:
If swallowed, do not induce vomiting. Give 2 glasses of water to drink. Get medical attention immediately.

Protection of First-aiders:

1. Use gloves resistant to the material being used (ie. neoprene or Nitrile rubber).
2. Use chemical goggles and face shield.
3. Use NIOSH approved supplied air respirator.

Notes to Physician: No information is available.

V. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Regular dry chemical, carbon dioxide, water, alcohol resistant foam.
Large fires: Use alcohol resistant foam or flood with fine water spray.

Specific Hazards: Carbon oxides and various hydrocarbon formed when burned.

Special Fire Fighting Procedures:

1. Move container from fire area and shut off source if it can be done without risk.
2. Cool containers with water spray until well after the fire is out.
3. Do not scatter spilled material with high-pressure water streams.
4. Dike for later disposal.
5. Use extinguishing agents appropriate for surrounding fire.
6. Avoid inhalation of material or combustion by products.

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

1. Avoid heat, flames, sparks and other sources of ignition.
2. Stop leak if possible without personal risk.
3. Small spills: absorb with sand or other non-combustible material.
4. Collect spilled material in appropriate container for disposal.

Environmental Precautions :

1. Eliminate all open flame in vicinity of spill or released vapor.
2. Stop the source of the leak or release.
3. Clean up releases as soon as possible.
4. Contain liquid to prevent further contamination of soil, surface water or groundwater.

Methods for Cleaning Up:

1. Clean up small spills using appropriate techniques such as absorbent materials or pumping.
2. Where feasible and appropriate, remove contaminated soil.

VII. HANDLING AND STORAGE

Handling :

1. Keep away from heat, sparks and flames.
2. Store in well-ventilated area.
3. Store in a tightly closed container.
4. Store in a cool, dry place.
5. Bond and ground during transfer.
6. Keep separated from incompatible substances.
7. Storage in accordance with all current regulations and standards.

Storage :

1. Keep away from heat, sparks and flames.
2. Store in well-ventilated area.
3. Store in a tightly closed container.
4. Store in a cool, dry place.
5. Bond and ground during transfer.
6. Keep separated from incompatible substances.

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Control :

1. Provide local exhaust ventilation system.
2. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present.
3. Ensure compliance with applicable exposure limits.

Control Parameter :

| HAZARDOUS MATERIAL | TWA | STEL | CEILING |
|--------------------|--------------------------------|------|---------|
| Diethylene Glycol | (AIHA) 10 mg/m ³ | --- | --- |

Personal Protection Equipment :

- Respiratory Protection:
Not generally required unless needed to prevent respiratory irritation .In case of spill or leak resulting in unknown concentration, use NIOSH approved supplied respirator.
- Hand Protection: Wear appropriate chemical resistant gloves.
- Eye Protection: For splash protection, use chemical goggles and face shield.
- Skin and Body Protection:
Wear appropriate chemical resistant clothing. Remove any chemical soaked clothing immediately.

IX. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---|
| Physical State: Liquid | Form: Brown liquid |
| Color: Brown | Odor: No special odor |
| pH: Not Established | Boiling Range: Not Established |
| Decomposition Temperature: Not Established | Flash Point: 149°C (300°F) Test Method: Open cup |
| Auto-ignition Temperature: Not Established | Flammable Limits: Not available |
| Vapor Pressure: Not available | Vapor Density: Not available |
| Specific Gravity: 1.07 @ 60°F | Solubility: Soluble in water |

X. STABILITY AND REACTIVITY

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|--|
| Stability: Stable at normal temperatures and pressure. |
| Possible Hazardous Reactions: Will not polymerize. |
| Conditions to Avoid : Avoid heat, flames, spark and other sources of ignition. Avoid contact with incompatible materials. |
| Materials to Avoid: Base, acids, strong oxidizing agent. |
| Hazardous Decomposition Products: Oxides of Carbon, various hydrocarbons formed. |

XI. TOXICOLOGICAL INFORMATION

Acute Toxicity :

- Inhalation:
Diethylene Glycol:
Inhalation is unlikely at room temperature due to the low vapor pressure. Exposure to high concentration of mist or aerosols may result in effects on central nervous system with headache, dizziness, drowsiness, and nausea.
Synthetic polyether glycol base oil:
High concentration of Mist or aerosols may cause irritation of the respiratory.
- Skin Contact:
Diethylene Glycol: Contact may be cause irritation and defat the skin.
Synthetic polyether glycol base oil: May cause irritation and defat the skin.
- Eye Contact:
Diethylene Glycol:
May cause irritation. Direct application of the liquid to rabbit corneas caused no injury.
Synthetic polyether glycol base oil:
May cause irritation and may severe smarting and burning sensation and corneal epithelium may be injured.
- Ingestion:
Diethylene Glycol:
Large doses may cause central nervous system depression with dizziness, drowsiness, headache, ataxia, convulsions and vertigo progressing to stupor and finally coma. Other symptoms may include nausea, vomiting, diarrhea, thirst, heartburn, loss of appetite, generalized weakness, hypotheamia, cyanosis ,acidosis, tachypnea, tachycardia, hypotension, pulmonary edama, muscle tenderness, abdominal and lumbar pain, transient polyuria and then oliguira progressing to anuria and kidney failure. Hypoglycemia may occur. Death may occur within a few hours from respiratory failure or within the first 24 hours from pulmonary edema.
Synthetic polyether glycol base oil: May cause lung edema, slight liver and kidney injury.

Local Effect: No data available.

Sensitization: No data available.

Chronic Toxicity:

- Inhalation:
Diethylene Glycol: May cause headache, dizziness, drowsiness, diarrhea.
Synthetic polyether glycol base oil:
High concentration of Mist or aerosols may cause irritation of the respiratory.
- Skin Contact:
Diethylene Glycol:
Repeated or prolonged exposure may produce a macerating action. Skin absorption may occur upon continuous contact. When applied to the skin of rats for 2 months, edema of the brain, plethora and minute brain hemorrhages developed.
Synthetic polyether glycol base oil:

Repeated or prolonged exposure may cause irritation and defat the skin.

- Eye Contact:

Diethylene Glycol: No data available.

Synthetic polyether glycol base oil:

May cause burning of eyes, irregular and unequal pupils and blurred vision.

- Ingestion:

Diethylene Glycol:

May cause nausea, vomiting, headache, diarrhea, abdominal and lumbar pain, oliguria, anuria, and acute renal failure. 105 uremic deaths occurred after persons repeatedly ingested diethylene glycol as a drug vehicle.

Synthetic polyether glycol base oil: No data available.

Specific Effects: No data available.

XII. ECOLOGICAL INFORMATION

Environmental Mobility: No data available.

XIII. DISPOSAL CONSIDERATIONS

Subject to disposal regulations: Dispose in accordance with all applicable regulations.

XIV. TRANSPORT INFORMATION

UN 2810

This product is not classified as dangerous for this mode (IATA) of transport.

XV. REGULATORY INFORMATION

Suitable Regulations:

1. U.S. Regulations:

TSCA Inventory Status: Y

TSCA 12(b) export notification: Not listed

SARA section 103 (40 CFR302.4): Y

SARA section 302 (40 CFR355.30): N

SARA section 304 (40 CFR355.40): N

SARA section 313 (40 CFR372.65): Y

2. State Regulations:

California Proposition 65: N

XVI. OTHER INFORMATION

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|-----------------------|---|
| Reference Literatures | 1. OHS 45304 2. OHS 07310 |
| Made By | Lubricants Business Division, CPC Corporation, Taiwan |

| | | |
|---------------|--------------------|--------------------|
| | Title: OHS Manager | Name: Fong-Wu Chen |
| Creation Date | SEP. 26, 2016 | |

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