KIA DOT 3 Motor Vehicle Brake Fluid

SECTION 1: IDENTIFICATION

1.1 Product identifier

Product: KIA DOT 3 Motor Vehicle Brake Fluid
Synonyms: None
Product Part Number: UM040 CH 013

1.2 Relevant identified uses of the substance or mixture and advised against

Brake Fluid

1.3 Detail of the supplier of the safety data sheet

Manufacturer Name: CCI MANUFACTURING IL CORPORATION
Address: 15550 Canal Bank Road, Lemont, IL 60439
Telephone: (630) 739-0606

1.4 Emergency telephone number

INFOTRAC: 1-800-535-5053 - DOMESTIC
1-352-323-3500 - INTERNATIONAL

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Health Hazard Classification:

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Category</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity (Oral)</td>
<td>4</td>
<td>H302</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>3</td>
<td>H316</td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
<td>1</td>
<td>H318</td>
</tr>
</tbody>
</table>

Physical Hazard Classification:
Not Classified

2.2 Label elements

Hazard Pictograms

GHS07
GHS05

Signal word: Danger

Hazard statements:

H302 Harmful if swallowed
H316 Causes mild skin irritation
H318 Causes serious eye damage
Precautionary statements

**Prevention**
- P264 Wash face, hands and any exposed skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear eye protection/face protection.

**Response**
- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P330 Rinse mouth.
- P332 + P313 If skin irritation occurs: Get medical advice/attention.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER or doctor/physician.

**Storage**
None

**Disposal**
P501 Dispose of contents/container in accordance with applicable federal, state and local regulations.

2.3 Other hazards
Data not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No.</th>
<th>Nominal %</th>
<th>Hazard Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene Glycol</td>
<td>111-46-6</td>
<td>20 - 50 %</td>
<td>H302</td>
</tr>
<tr>
<td>Triethylene glycol monobutyl ether</td>
<td>143-22-6</td>
<td>45 - 55 %</td>
<td>H318</td>
</tr>
<tr>
<td>Mixture of other glycol ether, glycol ether borate ester</td>
<td>Proprietary</td>
<td>15 - 25 %</td>
<td>H316</td>
</tr>
</tbody>
</table>

Proprietary items on this SDS are designated as trade secrets. Requests for disclosure of trade secret information will be made in accordance with the provisions contained in OSHA 29 CFR 1910.1200(i).

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

**Swallowing:** Get medical advice/attention if you feel unwell.

**Skin Contact:** Immediately flush with water for 15 minutes. Wash the contaminated skin with soap and water. If irritation develops, call a physician. If clothing comes in contact with the product, the clothing should be laundered before reuse.

**Eye Contact:** Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Call a physician at once.

**Inhalation:** This product is not toxic by inhalation. Remove individual to fresh air.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.
KIA DOT 3 Motor Vehicle Brake Fluid

4.3 Indication of any immediate medical attention and special treatment needed
No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5 : FIREFIGHTING MEASURES

5.1 Extinguishing media
Individuals should perform only those firefighting procedures for which they have been trained. Use water spray, dry chemical, alcohol foam or carbon dioxide. Use water to keep fire-exposed containers cool. If a spill or leak has not ignited, use water spray to disperse the vapors. Water spray may be used to flush spills away from fire and diluted spills to noncombustible proportions (see warning on water spray on hot liquid below.)

5.2 Special hazards arising from the substance or mixture
Data not available

5.3 Advice for firefighters
Fire fighters should wear self-contained breathing apparatus in the positive pressure mode with a full face piece when, there is a possibility of exposure to smoke, fumes or hazardous decomposition products. Water spray may cause foaming of hot glycol so indirect application of water spray or use of other extinguishing media should be used on hot liquid.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
For personal precautions, protective equipment and emergency procedures, see section 8. In case of spills, beware of slippery floors and surfaces.

6.2 Environmental precautions
The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

6.3 Method and material for containment cleaning up
Soak up with inert absorbent material and dispose in accordance with local/resional/national/international regulations. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions and safe handling
- Do not expose children and pets to this material.
- After handling product, wash thoroughly with soap and water before drinking, eating, or smoking.
- Keep away from open flames.

7.2 Conditions for safe storage, including any incompatibilities
- Do not store at temperatures above 104°F; Normal room temperature is satisfactory. Incompatible with strong acids, bases and oxidizers, chromium trioxide, potassium permanganate, and sodium peroxide.

7.3 Specific end use(s)
The identified uses for this product are detailed in section 1.2.
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Source</th>
<th>Exposure Limit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene Glycol</td>
<td>111-46-6</td>
<td>US OSHA</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>US ACGIH</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>US AIHA (WEEL)</td>
<td>10 mg/m³</td>
<td>TWA</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Control Measures: Handle in the presence of adequate ventilation. Engineering controls should be used whenever feasible to maintain concentrations below acceptable exposure criteria, including enclosures and local exhaust ventilation.

Respiratory Protection: Where exposure is likely to exceed acceptable criteria and engineering controls are not feasible, use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air and in accordance with OSHA (29 CFR 1910.134)

Protective Clothing: Wear gloves and protective clothing which are impervious to the product for the duration of exposure if there is potential for skin contact.

Eye Protection: Wear safety glasses meeting the specifications of ANSI Standard Z87.1 where no contact with the eye is anticipated. Chemical safety goggles meeting the specification of ANSI Standard Z87.1 should be worn whenever there is the possibility of splashing or other contact with the eyes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information of basic physical and chemical properties

<table>
<thead>
<tr>
<th>Item</th>
<th>Value/Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear to amber, homogeneous liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild, characteristic</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Data not available</td>
</tr>
<tr>
<td>pH</td>
<td>9.2 (50 v/v%)</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Data not available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Higher than 240°C (464°F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>132°C (270°F, COC)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Data not available</td>
</tr>
<tr>
<td>Flammability(Solid, gas)</td>
<td>Data not available</td>
</tr>
<tr>
<td>Upper/Lower flammability or explosive limits</td>
<td>Data not available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Below 0.1 mmHg</td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>Data not available</td>
</tr>
<tr>
<td>Density (20°C)</td>
<td>1.04 g/cm³</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Complete</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water</td>
<td>Data not available</td>
</tr>
<tr>
<td>Auto ignition temperature</td>
<td>Data not available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Data not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Data not available</td>
</tr>
</tbody>
</table>
KIA DOT 3 Motor Vehicle Brake Fluid

9.2 Other information
None

SECTION 10 : STABILITY AND REACTIVITY

10.1 Reactivity
Hazardous Polymerization : Not likely to occur
Conditions and Materials to Avoid : Avoid concentrated strong acids, oxidizing agents and bases. Do not expose to open flame.

10.2 Chemical stability
Generally stable

10.3 Possibility of hazardous reactions
Data not available

10.4 Conditions to avoid
Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials
Data not available

10.6 Hazardous decomposition products
Hazardous Decomposition Products : Carbon monoxide, carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Inhalation: Inhalation of vapors/mists may cause respiratory irritation
Ingestion: The acute oral toxicities of the main components of this mixture are as follows:
Diethylene Glycol:
Acute oral LD50's = 12,600 mg/kg (rat)
23,700 mg/kg (mouse)
Eye Contact: Based on the pH and irritation potential of this mixture’s constituents, the mist or liquid can be expected to cause mild to moderate irritation or inflammation of the eyes
Skin Contact: If significant quantities of this mixture come into contact with the skin, it may cause mild irritation consisting of transient redness.

Chronic Effects: No chronic or delayed effects have been identified.
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Diethylene Glycol:
LC50 - Pimephales promelas (fathead minnow) - 75,200 mg/l - 96 h

12.2 Persistence and degradability
Data not available

12.3 Bioaccumulative potential
Data not available

12.4 Mobility in soil
Mobility: The product is miscible with water. May spread in water systems.

12.5 Results of PBT and vPvB assessment
PBT assessment results: This substance is not classified as PBT or vPvB.

12.6 Other adverse effects
Other adverse effects / Remarks: None known.

SECTION 13: DISPOSAL CONSIDERATIONS
Waste Disposal:
Disposal should be made in accordance with applicable federal, state and local regulations. All recovered material should be packaged, labeled, transported, and disposed of or reclaimed in conformance with good engineering practices. Avoid land filling of liquids. Reclaim where possible.

If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste Subpart D.

Care must be taken to prevent environmental contamination from the use of this material. The use of this material has the responsibility to dispose of unused material., residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

SECTION 14 : TRANSPORT INFORMATION

14.1 UN number
Not applicable

14.2 UN proper shipping name
Not applicable

14.3 Transport hazard class(es)
DOT Classification (Bulk): Not DOT Classification
DOT Classification (Non-bulk): Not applicable
IATA (Non-bulk): Not regulated
IMDG Code (Non-bulk): Not regulated

14.4 Packaging group
Not applicable

14.5 Environmental hazards
Marine pollutant: No
Poison Inhalation Hazard: No
KIA DOT 3 Motor Vehicle Brake Fluid

14.6 Special precautions for user
Data not available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Data not available

SECTION 15 : REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Toxic Substance Control Act
This product is a mixture; therefore, it is not listed in the TSCA Inventory of Chemical Substances. All of the components of the mixture are listed in or exempt from the TSCA Inventory of Chemical Substances.

SARA Hazard Categories (as defined in Section 311/312)
Health: Immediate (Acute) and Delayed (Chronic)
Physical: None

Workplace Hazardous Materials Information System
Class D: D2B

Emergency Planning and Community Right to Know
Extremely Hazardous Substance - Threshold Planning Quantity:
None established

Supplier Notification Requirements, PER 40 CFR 372.45:
This mixture or trade name product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372.
Chemicals Listed Are: Glycol Ethers
The specific chemical identity and percentage composition are being withheld as trade secrets.

State Right to Know:
Pennsylvania: The specific chemical identity and percentage composition are being withheld as trade secrets.
New Jersey: The specific chemical identity and percentage composition are being withheld as trade secrets.

California Proposition 65
This material does not contain any California Proposition 65 chemicals.

SECTION 16 : OTHER INFORMATION

NFPA Rating:
Health (1)  Fire (1)  Reactivity (1)

Preparation information:
Date of revision: March 4, 2019

The information presented herein is believed to be factual as it has been derived from the works and opinions of people believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which CCI MANUFACTURING IL CORPORATION bears legal responsibility. The user should review any recommendation in the specific context of intended use to determine whether they are appropriate.