SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Trade name or designation of the mixture
Brake Fluid Super Dot 4

SDS number 8131
Product code Ford Internal Ref.: 160369
Issue date 09-July-2013
Version number 1.0
Revision date 09-July-2013
Product use Consumer use

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses Brake fluid
Uses advised against None known

1.3. Details of the supplier of the safety data sheet
Company name Ford Motor Company Ltd.
Address Parts Distribution Centre
Royal Oak Way South
UK-NN 11 5NT Daventry, Northants
United Kingdom
Telephone number 01327 305 305

Company name Ford-Werke GmbH
Address Edsel-Ford-Str. 2-14
D-50769 Köln
Germany
Telephone number +49 (0) 221 90-33333
E-mail HSE-BBS@bayer.com
Emergency telephone number 01327 305 305 (mo. - fr. 09:00 - 16:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended
This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

Hazard summary
Physical hazards Not classified for physical hazards.
Health hazards Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.
Environmental hazards Not classified for hazards to the environment.
Specific hazards Not available.
Main symptoms Not available.

2.2. Label elements
Label according to Directive 67/548/EEC or 1999/45/EC as amended
EC number -
EC label Not available.
R-phrases Not available.
S-phrases Not available.
Authorisation number Not available.

Supplemental label information Safety data sheet available for professional user on request.

2.3. Other hazards Not assigned.
SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>%</th>
<th>CAS-No. / EC No.</th>
<th>REACH Registration No.</th>
<th>INDEX No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1'-IMINODIPROPAN-2-OL</td>
<td>&lt;= 10</td>
<td>110-97-4 203-820-9</td>
<td>01-2119475444-34-XXXX 603-083-00-7</td>
<td></td>
<td>Classification: DSD: Xi;R36 CLP: Eye Irrit. 2;H319</td>
</tr>
<tr>
<td>2,2'-oxydiethanol</td>
<td>&lt;= 10</td>
<td>111-46-6 203-872-2</td>
<td>01-2119457857-21-XXXX 603-140-00-6</td>
<td></td>
<td>Classification: DSD: Xn;R22 CLP: Acute Tox. 4;H302</td>
</tr>
</tbody>
</table>

DSD: Directive 67/548/EEC.
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.
#: This substance has been assigned Community workplace exposure limit(s).

Composition comments
The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

General information
Not available.

4.1. Description of first aid measures

Inhalation
Move the exposed person to fresh air at once. Call a physician if symptoms develop or persist.

Skin contact
Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. Get medical attention if irritation develops and persists.

Eye contact
Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion
DO NOT induce vomiting. Get medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed
Not available.

4.3. Indication of any immediate medical attention and special treatment needed
Not available.

SECTION 5: Firefighting measures

General fire hazards
Not available.

5.1. Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture
In case of fire, toxic and irritating gases may be formed.

Hazardous combustion products
Carbon monoxide and carbon dioxide.
Nitrogen Oxides (NOx).

5.3. Advice for firefighters

Special protective equipment for firefighters
Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Special fire fighting procedures
Move container from fire area if it can be done without risk. Cool containers / tanks with water spray. Water runoff can cause environmental damage.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Wear appropriate personal protective equipment.
For emergency responders
Keep unnecessary personnel away.

6.2. Environmental precautions
Prevent entry into waterways, sewer, basements or confined areas.

6.3. Methods and material for containment and cleaning up
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13.

6.4. Reference to other sections
For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid prolonged exposure. When using, do not eat, drink or smoke. Use care in handling/storage.

7.2. Conditions for safe storage, including any incompatibilities
Store in original tightly closed container. Keep away from food, drink and animal feeding stuffs. Use care in handling/storage. Store in accordance with local/regional/national/international regulation.

7.3. Specific end use(s)
Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Occupational exposure limits

<table>
<thead>
<tr>
<th>UK. EH40 Workplace Exposure Limits (WELs)</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td></td>
</tr>
<tr>
<td>2,2'-oxydiethanol (111-46-6)</td>
<td>TWA</td>
</tr>
<tr>
<td></td>
<td>101 mg/m3</td>
</tr>
<tr>
<td></td>
<td>23 ppm</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures
Follow standard monitoring procedures.

8.2. Exposure controls
Appropriate engineering controls
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information
Eye wash fountain is recommended.

Eye/face protection
Avoid contact with eyes. Wear eye/face protection.

Skin protection
- Hand protection
Nitrile rubber.

Glove thickness 0.4 mm
Break through time >= 480 min

Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product.

Hand protection in case of splash contact:
Nitrile rubber.
Glove thickness 0.4 mm
Break through time >= 480 min

Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product.

The protective gloves to be used must comply with the specification of EU directive 89/686/EC and the resultant standard EN374. The above given information is based on laboratory test in line with EN374. The recommendation is only valid for the supplied product and the stated application. Special working conditions, like heat or mechanical strain, which deviate from the test conditions, can reduce the protective effect provided by the recommended glove.

- Other
Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Avoid contact with the skin. Wear eye/face protection.
Respiratory protection
Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

Thermal hazards
Not available.

Hygiene measures
When using, do not eat, drink or smoke. Avoid contact with eyes. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practices.

Environmental exposure controls
Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance
- Physical state: Liquid.
- Form: Liquid
- Colour: Yellow.

Odour
- Characteristic.

Odour threshold
- Not available.

pH
- 7 - 8.5 (FMVSS 116) @ 20 °C

Melting point/freezing point
- Not available.

Initial boiling point and boiling range
- > 260 °C (> 500 °F) (FMVSS 116)

Flash point
- > 130.00 °C (> 266.00 °F) ISO 2719

Evaporation rate
- Not applicable.

Flammability (solid, gas)
- Not applicable.

Upper/lower flammability or explosive limits
- Flammability limit - lower (%) Not available.
- Flammability limit - upper (%) Not available.
- Explosive limit - lower (%) 1.5 % v/v

Vapour pressure
- Not applicable.

Vapour density
- Not applicable.

Relative density
- Not available.

Solubility(ies)
- @ 20 °C soluble

Partition coefficient (n-octanol/water)
- Not available.

Ignition temperature
- > 200 °C (> 392 °F) (DIN 51794)

Decomposition temperature
- 360 °C (680 °F)

Viscosity
- Not available.

Explosive properties
- Not available.

Oxidizing properties
- Not available.

9.2. Other information
- Kinematic viscosity
  - 15 - 17 mm²/s (FMVSS 116) @ 20 °C
- Pour point
  - ≤ -70 °C (< -94 °F) (DIN 51583)
- VOC (Weight %)
  - 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity
- None known. None under normal conditions.

10.2. Chemical stability
- Stable at normal conditions.

10.3. Possibility of hazardous reactions
- No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid
- None under normal conditions.

10.5. Incompatible materials
- Not available.

10.6. Hazardous decomposition products
- Fire may produce irritating, corrosive and/or toxic gases.
  - Carbon oxides.
  - Nitrogen oxides (NOx).
SECTION 11: Toxicological information

General information
Not available.

Information on likely routes of exposure

Ingestion
Not available.

Inhalation
Not available.

Skin contact
Not available.

Eye contact
Not available.

Symptoms
Not available.

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brake Fluid Super Dot 4 (Mixture)</td>
<td>Oral LD50</td>
<td>Rat</td>
</tr>
<tr>
<td>Components</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,1'-IMINODIPROPAN-2-OL (110-97-4)</td>
<td>Acute LD50</td>
<td>Rabbit</td>
</tr>
<tr>
<td></td>
<td>Dermal LD50</td>
<td>Guinea pig</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mouse</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td>Oral LD50</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td>Other LD50</td>
<td>Mouse</td>
</tr>
<tr>
<td>2,2'-oxydiethanol (111-46-6)</td>
<td>Acute LD50</td>
<td>Rabbit</td>
</tr>
<tr>
<td></td>
<td>Dermal LD50</td>
<td>Cat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dog</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Guinea pig</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mouse</td>
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<tr>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rabbit</td>
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<tr>
<td></td>
<td></td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Other LD50</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Not available.

Serious eye damage/irritation
No eye irritation. (OECD 405) (Rabbit)

Respiratory sensitisation
Not available.

Skin sensitisation
Not available.

Germ cell mutagenicity
Not available.

Carcinogenicity
Not available.

Reproductive toxicity
Not available.

Specific target organ toxicity - single exposure
Not available.
Specific target organ toxicity - repeated exposure
Not available.
Aspiration hazard
Not available.
Mixture versus substance information
Not available.
Other information
Not available.

SECTION 12: Ecological information

12.1. Toxicity
Not expected to be harmful to aquatic organisms. Avoid discharge into drains, water courses or onto the ground.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brake Fluid Super Dot 4 (Mixture)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic Acute Fish</td>
<td>LC50</td>
<td>Ide, silver or golden orfe (Leuciscus idus)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,2'-oxydiethanol (111-46-6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic Fish</td>
<td>LC50</td>
<td>Western mosquitofish (Gambusia affinis) &gt; 32000 mg/l, 96 hours</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
The product is easily biodegradable.

12.3. Bioaccumulative potential
Not available.

Partition coefficient
n-octanol/water (log Kow)
1,1'-IMINODIPROPAN-2-OL -0.82

Bioconcentration factor (BCF)
Not available.

12.4. Mobility in soil
Not available.

12.5. Results of PBT and vPvB assessment
Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects
Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Residual waste
Dispose of in accordance with local regulations. Avoid discharge into water courses or onto the ground.

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste code
The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal methods/information
Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

SECTION 14: Transport information

ADR
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

SECTION 15: Regulatory information

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

EU regulations
- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I
  Not listed.
- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II
  Not listed.
  Not listed.
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended
Not listed.
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended
Not listed.
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended
Not listed.
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended
Not listed.
Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry
Not listed.
Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA
Not listed.

Authorisations
Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation
Not listed.

Restrictions on use
Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
Not listed.
Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work
Not regulated.
Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding
Not regulated.

Other EU regulations
Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances
Not regulated.
Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work
1,1'-IMINODIPROPAN-2-OL (CAS 110-97-4)
2,2'-oxydiethanol (CAS 111-46-6)
Not regulated.

Other regulations
The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. The product does not need to be labelled in accordance with EC directives or respective national laws.

National regulations
Safety data sheet available for professional user on request.

15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out.

SECTION 16: Other information
List of abbreviations Not available.
References Not available.
Information on evaluation method leading to the classification of mixture Not available.
Full text of any statements or R-phrases and H-statements under Sections 2 to 15
R22 Harmful if swallowed.
R36 Irritating to eyes.
H302 - Harmful if swallowed.
H319 - Causes serious eye irritation.

Training information Not available.
Disclaimer The information in the sheet was written based on the best knowledge and experience currently available.
<table>
<thead>
<tr>
<th>Finis Code</th>
<th>Part number</th>
<th>Container Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 776 308</td>
<td>CU7J M6C57 A1A</td>
<td>250 ml</td>
</tr>
<tr>
<td>1 776 310</td>
<td>CU7J M6C57 B1A</td>
<td>500 ml</td>
</tr>
<tr>
<td>1 776 311</td>
<td>CU7J M6C57 C1A</td>
<td>1 l</td>
</tr>
<tr>
<td>1 776 312</td>
<td>CU7J M6C57 D1A</td>
<td>5 l</td>
</tr>
</tbody>
</table>