Ferdinand Bilstein GmbH + Co. KG

1 Identification of the substance / preparation and of the company

1.1 Product identifier

febi 29934 automatic transmission fluid (ATF)
Article number 29934

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

See product designation

1.3 Details of the supplier of the safety data sheet

Company
Ferdinand Bilstein GmbH + Co. KG
Wilhelmstr. 47
58256 Ennepetal / GERMANY
Phone: +49 2333 911-0
Fax: +49 2333 911-444
Homepage: www.febi.com
E-mail: info@febi.com

Responsible
Schroeder@chemiebuero.de

1.4 Emergency phone

2 Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

not applicable

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

The product does not require a hazard warning label in accordance with EC-directives.

2.2 Label elements

Hazard symbols none
R-phrases none
S-phrases none
Special labelling Safety data sheet available for professional user on request.

2.3 Other hazards

Physico-chemical hazards No particular hazards known.
Human health dangers Frequent persistent contact with the skin can cause skin irritation.
If swallowed or in the event of vomiting, risk of product entering the lungs.
Environmental hazards The product/the substance has the Water Hazard Class 2.
Other hazards No particular hazards known.

3 Composition / Information on ingredients

3.1 Substances

The product in question is a mixture.
3.2 Mixtures

<table>
<thead>
<tr>
<th>Range [%]</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 - 10</td>
<td>Distillates (petroleum), clay-treated light naphthenic (&lt;3% DMSO)</td>
</tr>
<tr>
<td></td>
<td>CAS: 64742-45-6, EINECS/ELINCS: 265-147-7, EU-INDEX: 649-464-00-1</td>
</tr>
<tr>
<td></td>
<td>GHS/CLP: not applicable</td>
</tr>
<tr>
<td></td>
<td>R66</td>
</tr>
<tr>
<td>2.5 - 5</td>
<td>Methacrylate copolymer</td>
</tr>
<tr>
<td></td>
<td>CAS: , EINECS/ELINCS: Polymer</td>
</tr>
<tr>
<td></td>
<td>GHS/CLP: Eye Irrit. 2, H319</td>
</tr>
<tr>
<td></td>
<td>EEC: Xi R36</td>
</tr>
</tbody>
</table>

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or below 0,1%.
For the wording of the listed risk phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures

General information Change soaked clothing.

Inhalation Ensure supply of fresh air.
In the event of symptoms seek for medical treatment.

Skin contact When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

Eye contact In case of contact with eyes rinse thoroughly with water.
In the event of symptoms seek for medical treatment.

Ingestion Seek medical advice immediately.
Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

No informations available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide.
Dry powder.
Foam.

Extinguishing media that must not be used Full water jet.

5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product.
Forms slippery surfaces with water.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
Prevent spread over a wide area (e.g. by containment or oil barriers).
6.3 Methods and material for containment and cleaning up

Take up residues with absorbent material (e.g. sand).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See Chapter 8+13

7 Handling and storage

7.1 Precautions for safe handling

No special measures necessary if used correctly.
The product is combustible.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
No special measures necessary.
Keep container tightly closed.

7.3 Specific end use(s)

See product use, Chapter 1.2

8 Exposure controls / personal protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Ingredients with occupational exposure limits to be monitored (GB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range [%] Substance / WEL: Workplace exposure limit</td>
</tr>
<tr>
<td>5 - 10 Distillates (petroleum), clay-treated light naphthenic (&lt;3% DMSO) / - ppm, 800 mg/m³, -</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Additional advice on system design
Ensure adequate ventilation on workstation.
Eye protection
Safety glasses.
Hand protection
The details concerned are recommendations. Please contact the glove supplier for further information.
Nitrile rubber, >480 min (EN 374).
Neoprene, >480 min (EN 374).
Skin protection
not applicable
Other
Avoid contact with eyes and skin.
Wash hands before breaks and after work.
Use barrier skin cream.
Respiratory protection
not applicable
Thermal hazards
No informations available.
Delimitation and monitoring of the environmental exposition
not determined
9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>dark brown</td>
</tr>
<tr>
<td>Odor</td>
<td>characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>not determined</td>
</tr>
<tr>
<td>pH-value</td>
<td>not applicable</td>
</tr>
<tr>
<td>pH-value [1%]</td>
<td>not applicable</td>
</tr>
<tr>
<td>Boiling point [°C]</td>
<td>not applicable</td>
</tr>
<tr>
<td>Flash point [°C]</td>
<td>216 (EN ISO 2592)</td>
</tr>
<tr>
<td>Flammability [°C]</td>
<td>not determined</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>not applicable</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>not applicable</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>no</td>
</tr>
<tr>
<td>Vapour pressure [kPa]</td>
<td>not determined</td>
</tr>
<tr>
<td>Density [g/ml]</td>
<td>0.852 (DIN 51757) (15°C / 59.0°F)</td>
</tr>
<tr>
<td>Bulk density [kg/m³]</td>
<td>not applicable</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>insoluble</td>
</tr>
<tr>
<td>Partition coefficient [n-octanol/water]</td>
<td>not determined</td>
</tr>
<tr>
<td>Viscosity</td>
<td>37.3 mm²/s (DIN 51562) (40°C)</td>
</tr>
<tr>
<td>Relative vapour density determined in air</td>
<td>not applicable</td>
</tr>
<tr>
<td>Evaporation speed</td>
<td>not applicable</td>
</tr>
<tr>
<td>Melting point [°C]</td>
<td>not determined</td>
</tr>
<tr>
<td>Autoignition temperature [°C]</td>
<td>not applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>not determined</td>
</tr>
</tbody>
</table>

9.2 Other information

No informations available.

10 Stability and reactivity

10.1 Reactivity

See chapter 10.3.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

10.4 Conditions to avoid

See chapter 7.2.

10.5 Incompatible materials

No informations available.

10.6 Hazardous decomposition products

No hazardous decomposition products known.
11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

- Serious eye damage/irritation: not determined
- Skin corrosion/irritation: not determined
- Respiratory or skin sensitisation: not determined
- Specific target organ toxicity — single exposure: not determined
- Specific target organ toxicity — repeated exposure: not determined
- Mutagenicity: not determined
- Reproduction toxicity: not determined
- Carcinogenicity: not determined
- General remarks: No classification on the basis of the calculation procedure of the preparation directive.

12 Ecological information

12.1 Toxicity

12.2 Persistence and degradability

- Behaviour in environment compartments: not determined
- Behaviour in sewage plant: not determined
- Biological degradability: not determined

12.3 Bioaccumulative potential

No informations available.

12.4 Mobility in soil

No informations available.

12.5 Results of PBT and vPvB assessment

No informations available.

12.6 Other adverse effects

not determined

13 Disposal considerations

13.1 Waste treatment methods

Coordinate the waste disposal with the national authorities.

Product

Disposal in an incineration plant in accordance with the regulations of the local authorities. For recycling, consult manufacturer. In accordance to RoHS!

Waste no. (recommended) 130205* mineral-based non-chlorinated engine, gear and lubricating oils

Contaminated packaging

Uncontaminated packaging may be taken for recycling. Uncontaminated packaging may be reused.

Waste no. (recommended) 150102
150104
150110*
14 Transport information

14.1 UN number

See point 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Classification according to ADR  NO DANGEROUS GOODS
Classification according to IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"
Classification according to IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

See point 14.2 in accordance with UN shipping name

14.4 Packing group

See point 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See point 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under points 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

15 Regulatory information

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


15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

16 Other informations

R-phrases (Chapter 03)  R 36: Irritating to eyes.
R 66: Repeated exposure may cause skin dryness or cracking.
Hazard statements (Chapter 03)  H319 Causes serious eye irritation.
Observe employment restrictions for people no
VOC (1999/13/CE) 0%

Disclaimer: This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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