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

1.1. Product identifier

Name of product Flüssigkeitsgetriebeöl ATF (1-Liter)

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

Recommended intended purpose(s)
Transmission oil

1.3. Details of the supplier of the safety data sheet

Distributor Daimler AG
D-70546 Stuttgart Germany

Advice
Phone +49 (0)711 17-97390
Fax +49 (0)711 17-94831
E-mail (competent person): Mercedes-Benz-SDB@daimler.com

1.4. Emergency telephone number

Emergency advice
Phone +49 (0)711 17-0

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Additional hints
The preparation is not classified as hazardous according to Directive 1999/45/EC.

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

Additional hints
This mixture is not classified as hazardous according to Regulation (EC) 1272/2008 [GHS].

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Precautionary Statements

General
P102 Keep out of reach of children.

Special rules for supplemental label elements for certain mixtures
Safety data sheet available on request.

2.3. Other hazards

Adverse human health effects and symptoms
Excessive exposure can result in irritation of the eyes, skin or respiratory tract.
A subcutaneous injection administered under high pressure may cause severe damage.
! Results of PBT and vPvB assessment  
The substances in the mixture do not meet the PBT/ vPvB criteria according to REACH, annex XIII.

! SECTION 3: Composition/ information on ingredients

3.1. Substances  
not applicable

3.2. Mixtures  
Description  
Mixture of highly refined crude oils and additives

! Hazardous ingredients

<table>
<thead>
<tr>
<th>CAS No</th>
<th>EC No</th>
<th>Name</th>
<th>[%]</th>
<th>Classification according to 67/548/EEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>68783-96-0</td>
<td>272-213-9</td>
<td>Sulfonsäuren, Erdöl, Calciumsalze, überalkalisch</td>
<td>1 - 5</td>
<td>R53</td>
</tr>
<tr>
<td>68649-42-3</td>
<td>272-028-3</td>
<td>Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts</td>
<td>&lt; 2,5</td>
<td>Xi R41; N R51/53</td>
</tr>
<tr>
<td>8042-47-5</td>
<td>232-455-8</td>
<td>Weißes Mineralöl (Erdoel)</td>
<td>30 - 40</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS No</th>
<th>EC No</th>
<th>Name</th>
<th>[%]</th>
<th>Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]</th>
</tr>
</thead>
<tbody>
<tr>
<td>68783-96-0</td>
<td>272-213-9</td>
<td>Sulfonsäuren, Erdöl, Calciumsalze, überalkalisch</td>
<td>1 - 5</td>
<td>Aquatic Chronic 4, H413</td>
</tr>
<tr>
<td>68649-42-3</td>
<td>272-028-3</td>
<td>Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts</td>
<td>&lt; 2,5</td>
<td>Eye Dam. 1, H318 / Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>8042-47-5</td>
<td>232-455-8</td>
<td>Weißes Mineralöl (Erdoel)</td>
<td>30 - 40</td>
<td>Asp. Tox. 1, H304</td>
</tr>
</tbody>
</table>

REACH

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Name</th>
<th>REACH registration number</th>
</tr>
</thead>
<tbody>
<tr>
<td>8042-47-5</td>
<td>Weißes Mineralöl (Erdoel)</td>
<td>01-2119487078-27</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of inhalation  
Ensure of fresh air.  
In the event of symptoms refer for medical treatment.

In case of skin contact  
In case of contact with skin wash off with soap and water.  
Consult a doctor if skin irritation persists.

In case of eye contact  
In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

In case of ingestion  
Do not induce vomiting.  
Consult physician in the event of continuous problems

4.2. Most important symptoms and effects, both acute and delayed

Physician’s information / possible symptoms  
Local necrosis evidenced by delayed occurrence of pain and tissue damage several hours following injection.
4.3. Indication of any immediate medical attention and special treatment needed
No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media
Foam
Dry powder
Carbon dioxide
Water mist

Unsuitable extinguishing media
Full water jet

5.2. Special hazards arising from the substance or mixture
In the event of fire the following can be released:
Carbon monoxide (CO)
Aldehydes
Sulphur dioxide (SO2)
Carbon dioxide (CO2).

5.3. Advice for firefighters
Special protective equipment for fire-fighters
Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

Additional information
Contaminated fire-fighting water must be collected separately; it shall not run into the sewage system, aquatic environment or into the soil.
Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
For non-emergency personnel
Avoid skin and eye contact

For emergency responders
Avoid skin and eye contact
Keep away unprotected persons

6.2. Environmental precautions
Inform respective authorities in case of seepage into water course or sewage system.
Do not discharge into the drains/ surface waters/ groundwater.
Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the subsoil/ soil.

6.3. Methods and material for containment and cleaning up
Take up with absorbent material (e.g. general-purpose binder).
Remove from water surface (e.g. skimming, suction)
Take up mechanically.
6.4. Reference to other sections
Safe handling: see section 7
Disposal: see section 13
Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Advice on safe handling
Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

General protective measures
Avoid contact with eyes and skin

Hygiene measures
At work do not eat, drink, smoke or take drugs.
Wash soiled clothing immediately.
Wash skin thoroughly and immediately after handling the product.
Particular cleanliness and hygiene must be observed.

7.2. Conditions for safe storage, including any incompatibilities
Advice on storage compatibility
Do not store together with oxidizing agents.

Further information on storage conditions
Keep container tightly closed.
Keep container in a well-ventilated place

7.3. Specific end use(s)
No information available.

SECTION 8: Exposure controls/ personal protection

8.1. Control parameters
Ingredients with occupational exposure limits to be monitored

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Name</th>
<th>Code</th>
<th>[mg/m³]</th>
<th>[ppm]</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ölnebel</td>
<td>8 hours</td>
<td>5</td>
<td></td>
<td>Empfehlung</td>
</tr>
</tbody>
</table>

8.2. Exposure controls
Respiratory protection
Breathing apparatus in the event of aerosol or mist formation.

Hand protection
Protective gloves
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye protection
Safety glasses recommended during transfer

Other protection measures
protective clothing
Appropriate engineering controls
Sufficient ventilation and exhaustion.

! SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Temperature</th>
<th>at</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colour</td>
<td>amber</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odour threshold</td>
<td>not determined</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Important health, safety and environmental information

- **pH value**: not applicable
- **starts to boil**: > 316 °C
- **pourpoint**: -34 °C
tolerance: +/- 10%
- **Flash point**: > 150 °CASTM D 92
tolerance: +/- 10%
- **Vapourisation rate**: not determined
- **Flammable (solid)**: not applicable
- **Flammability (gas)**: not applicable
- **Ignition temperature**: not determined
- **Self ignition temperature**: not determined
- **Lower explosion limit**: ca. 0.9 Vol-%
- **Upper explosion limit**: ca. 7 Vol-%
- **Vapour pressure**: < 0.013 kPa 20 °C
- **Relative density**: 0.86 15 °C
- **Vapour density**: > 2 101 kPa
- **Solubility in water**: insoluble
- **Solubility/ other**: not determined
- **Partition coefficient n-octanol/ water (log P O/W)**: > 3.5
! SECTION 10: Stability and reactivity

10.1. Reactivity
No information available.

10.2. Chemical stability
The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions
No information available.

10.4. Conditions to avoid
Ignition sources
Heat

10.5. Incompatible materials

! Materials to avoid
strong oxidants

10.6. Hazardous decomposition products

Thermal decomposition

Remark Stable at ambient temperature.

Additional information
No risk of production of decomposition products when appropriately handled and stored
! SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/ Irritability/ Sensitization

<table>
<thead>
<tr>
<th>Value/ Validation</th>
<th>Species</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 acute oral</td>
<td>&gt; 2000 mg/ kg</td>
<td>rat</td>
<td>Specifications relate to the subcomponent.</td>
</tr>
<tr>
<td>LD50 acute dermal</td>
<td>&gt; 2000 mg/ kg</td>
<td>rabbit</td>
<td>Individual components</td>
</tr>
</tbody>
</table>

Irritability skin
non-irritant

Irritability eye
non-irritant

Skin sensitization
non-sensitizing

Subacute Toxicity - Carcinogenicity

<table>
<thead>
<tr>
<th>Value</th>
<th>Species</th>
<th>Method</th>
<th>Validation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subacute Toxicity</td>
<td>no</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subchronic Toxicity</td>
<td>no</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chronic Toxicity</td>
<td>no</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>no</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reproduction-Toxicity</td>
<td>no</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>no</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Specific target organ toxicity (single exposure)
no

Specific target organ toxicity (repeated exposure)
no

Aspiration hazard
no

Experiences made from practice
Frequent persistent contact with the skin may cause skin irritation.

! SECTION 12: Ecological information

12.1. Toxicity
No information available.

12.2. Persistence and degradability
No information available.

12.3. Bioaccumulative potential
The product has not been tested. Because of the product’s consistency and low solubility in water bioavailability is not likely.

12.4. Mobility in soil
No information available.

12.5. Results of PBT and vPvB assessment
The substances in the mixture do not meet the PBT/ vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects
**Behaviour in sewage plant**
The product floats on top of the water/ sewage.

**General regulation**
Do not allow uncontrolled leakage of product into the environment.

---

**SECTION 13: Disposal considerations**

13.1. Waste treatment methods

<table>
<thead>
<tr>
<th>Waste code No.</th>
<th>Name of waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>13 02 05*</td>
<td>mineral-based non-chlorinated engine, gear and lubricating oils</td>
</tr>
</tbody>
</table>

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/ 98/ EC on hazardous waste.

**Recommendations for the product**
Remove in accordance with local official regulations.

**Recommendations for packaging**
Disposal in accordance with local regulations.

**General information**
The waste code must be allocated in compliance with the EAK-regulation referring to the specific process and the sector.

---

**SECTION 14: Transport information**

<table>
<thead>
<tr>
<th>ADR/ RID</th>
<th>IMDG</th>
<th>IATA-DGR</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1. UN number</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.2. UN proper shipping name</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.5. Environmental hazards</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

14.6. Special precautions for user
No information available.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
not applicable

Transport/ further information
No dangerous goods as defined by the transport regulations - ADR/ RID, IMDG, ICAO/ IATA-DGR.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/ legislation specific for the substance or mixture
No information available.

15.2. Chemical Safety Assessment
Substance safety analysis was not performed for this mixture.

! SECTION 16: Other information

! Recommended uses and restrictions
Adhere to existing national and local rules referring to chemicals.

Further information
The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.8

Sources of key data used
Safety data sheets of suppliers

Wording of the R/ H-phrases specified in chapter 3 (not the classification of the mixture!)
R 41 Risk of serious damage to eyes.
R 51/ 53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 53 May cause long-term adverse effects in the aquatic environment.
H304 May be fatal if swallowed and enters airways.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.