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

1.1. Product identifier

Trade name: Hydraulic Fluid F-AT/PS
Product code: Ford Internal Ref.: 139178
SDS Number: 5193
Product use: Professional use

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

Relevant identified uses: Hydraulic Fluids
Uses advised against: None known

1.3. Details of the supplier of the safety data sheet

Supplier: Ford-Werke GmbH
Edsel-Ford-Str. 2-14
50769 Cologne
Germany
+49 221 90-33333
sdseu@ford.com

Distributor: Ford Motor Company Ltd.
Parts Distribution Centre
Royal Oak Way South
NN11 8NT Daventry, Northants
+44 1327 305 198
sdseu@ford.com

1.4. Emergency telephone number

+49 (0) 6132-84463 (GBK GmbH – 24/7)

2. SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

2.2. Label elements

This product does not meet the criteria for labeling according to Regulation(EC) No 1272/2008 as amended.

Supplemental hazard information

EUH210 Safety data sheet available on request.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.
3. SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated heavy paraffinic</td>
<td>64742-54-7</td>
<td>50 - &lt; 100</td>
<td>Asp. Tox. 1, H304</td>
<td>(Note L)</td>
</tr>
<tr>
<td></td>
<td>265-157-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>649-467-00-8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>01-2119484627-25-XXXX</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

Full text of H-statements: see section 16

4. SECTION 4: First aid measures

4.1. Description of first aid measures

General information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Inhalation
Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms occur.

Skin contact:
Wash skin with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Eyes contact
Rinse immediately with plenty of water. If eye irritation persists: Get medical advice/attention.

Ingestion
Get medical attention if symptoms occur. Rinse mouth thoroughly.

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

Symptoms/effects:
May cause skin irritation. May cause eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Water spray. Dry powder. Foam.

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

Hazardous combustion products
During fire, gases hazardous to health may be formed. Carbon oxides (CO, CO2).

5.3. Advice for firefighters

Firefighting instructions
Move containers from fire area if it can be done without personal risk. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Protection during firefighting
Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
6. SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment
For personal protection, see section 8 of the SDS.

Emergency procedures
Ventilate spillage area. If spilled, may cause the floor to be slippery.

For emergency responders

Protective equipment
Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection”.

Emergency procedures
Keep unnecessary personnel away.

6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases.

6.3. Methods and material for containment and cleaning up

Methods for 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: Take up liquid spill into absorbent material. Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use.

Other information
Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection”. For further information refer to section 13.

7. SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling
Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing vapours, mist. Keep away from heat and sources of ignition.

Hygiene measures
Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions
Store in original tightly closed container. Store in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s)

Hydraulic Fluids.

8. SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Contains no substances with occupational exposure limits.

DNEL: Derived no effect level
No data available

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Route</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum),</td>
<td>Worker</td>
<td>Dermal</td>
<td>1 mg/kg bodyweight/day</td>
<td>Long-term - systemic effects</td>
</tr>
<tr>
<td>Distillates (petroleum),</td>
<td>Consumer</td>
<td>Oral</td>
<td>0.74 mg/kg bodyweight/day</td>
<td>Long-term - systemic effects</td>
</tr>
<tr>
<td>hydrotreated heavy paraffinic (64742-54-7)</td>
<td>Worker</td>
<td>Inhalation</td>
<td>2.7 mg/m³</td>
<td>Long-term - systemic effects</td>
</tr>
<tr>
<td>hydrotreated heavy paraffinic (64742-54-7)</td>
<td>Consumer</td>
<td>Inhalation</td>
<td>5.6 mg/m³</td>
<td>Long-term - local effects</td>
</tr>
</tbody>
</table>

PNEC: Predicted no effect concentration
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.

Materials for protective clothing

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Individual protection measures, such as personal protective equipment (PPE)

Eye protection

Safety glasses

Skin protection

Hand protection

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.

<table>
<thead>
<tr>
<th>Material</th>
<th>Permeation</th>
<th>Thickness (mm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrile rubber (NBR)</td>
<td>6 (&gt; 480 minutes)</td>
<td>0.4</td>
<td>Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see <a href="http://www.kcl.de">www.kcl.de</a>) or comparable product.</td>
</tr>
<tr>
<td>In case of splash contact: Nitrile rubber (NBR)</td>
<td>6 (&gt; 480 minutes)</td>
<td>0.4</td>
<td>Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see <a href="http://www.kcl.de">www.kcl.de</a>) or comparable product.</td>
</tr>
</tbody>
</table>

Other protective measures

No additional information available.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment

Skin and body protection

Wear suitable protective clothing

Thermal hazard protection

Wear appropriate thermal protective clothing, when necessary.

Environmental exposure controls

Inform appropriate managerial or supervisory personnel of all environmental releases.

9. SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Colour</td>
<td>Red.</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>-39 °C</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>210 °C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>0.87 g/ml @ 15 °C</td>
</tr>
</tbody>
</table>
Solubility

insoluble in water.

Log Pow

No data available

Viscosity, kinematic

39.5 mm²/s @ 40 °C

Viscosity, dynamic

No data available

Explosive properties

No data available

Oxidising properties

No data available

Explosive limits

No data available

9.2. Other information

VOC (EU) 0 %

10. SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Contact with incompatible materials.

10.5. Incompatible materials


10.6. Hazardous decomposition products

Thermal decomposition can lead to the release of irritating gases and vapours.

11. SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met

Carcinogenicity

Based on available data, the classification criteria are not met

Reproductive toxicity

Based on available data, the classification criteria are not met

STOT-single exposure

Based on available data, the classification criteria are not met

STOT-repeated exposure

Based on available data, the classification criteria are not met

Aspiration hazard

Based on available data, the classification criteria are not met

Other information


12. SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.2. Persistence and degradability

Hydraulic Fluid F-AT/PS

Persistence and degradability No additional information available.
12.3. Bioaccumulative potential

Hydraulic Fluid F-AT/PS

Bioaccumulative potential No additional information available.

12.4. Mobility in soil

Hydraulic Fluid F-AT/PS

Ecology - soil No additional information available.

12.5. Results of PBT and vPvB assessment

Hydraulic Fluid F-AT/PS

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

Component

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

12.6. Other adverse effects

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

13. SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) Dispose of in accordance with local regulations.

Waste treatment methods Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Collect and reclaim or dispose in closed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose of contents/container in accordance with licensed collector’s sorting instructions.

Sewage disposal recommendations Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.

Product/Packaging disposal recommendations Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

European List of Waste (LoW) code

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

13 02 05* mineral-based non-chlorinated engine, gear and lubricating oils
15 01 10* packaging containing residues of or contaminated by dangerous substances

14. SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN
Not regulated for transport
15. **SECTION 15: Regulatory information**

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

**EU-Regulations**

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006

| Distillates (petroleum), hydrotreated heavy paraffinic | 3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 |
| Distillates (petroleum), hydrotreated heavy paraffinic | 3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

**VOC (EU)**

0 %

**Other information, restriction and prohibition regulations**

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended. For details, refer to section 3 and 8.

**National regulations**

No additional information available.

15.2. **Chemical safety assessment**

No chemical safety assessment has been carried out

16. **SECTION 16: Other information**

**Indication of changes**

1.4. Emergency telephone number.

**Abbreviations and acronyms**

<p>| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| AGW | Occupational exposure limit value |
| ATE | Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP) |
| BAM | Federal Institute for Materials Research and Testing, Germany |
| BAT | Maximum permissible concentration of biological working substances. |
| BCF | Bio-concentration factor. |
| BLV | Biological limit values |
| BLV | Biological limit values (BGW, Austria) |
| BMGV | Biological Monitoring Guidance Value (EH40,UK). |
| BOD5 | Biochemical oxygen demand within 5 days |
| BOD | Biochemical oxygen demand |
| bw | Body weight. |
| calcd. | Calculated |
| CAS | Chemical Abstract Service. |
| CEN | European Committee for Standardization |
| CESIO | European Committee on Organic Surfactants and their Intermediates. |
| COD | Chemical oxygen demand |
| CLP | Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures. |</p>
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMR</td>
<td>Carcinogenic, Mutagenic or Reproduction Toxic Substances</td>
</tr>
<tr>
<td>CSA</td>
<td>Chemical safety assessment</td>
</tr>
<tr>
<td>CSR</td>
<td>Chemical Safety Report.</td>
</tr>
<tr>
<td>DMEL</td>
<td>Derived Minimum Effect Level.</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived no effect level</td>
</tr>
<tr>
<td>EAC</td>
<td>European waste catalogue</td>
</tr>
<tr>
<td>EC</td>
<td>European community</td>
</tr>
<tr>
<td>EC50</td>
<td>Effective concentration</td>
</tr>
<tr>
<td>EINECS</td>
<td>European Inventory of Existing Commercial Chemical Substances.</td>
</tr>
<tr>
<td>ELINCS</td>
<td>European List of Notified Chemical Substances.</td>
</tr>
<tr>
<td>EN</td>
<td>European norm.</td>
</tr>
<tr>
<td>ERC</td>
<td>ERC (Environmental Release category)</td>
</tr>
<tr>
<td>EU</td>
<td>European Union</td>
</tr>
<tr>
<td>GLP</td>
<td>Good Laboratory Practice.</td>
</tr>
<tr>
<td>GHS</td>
<td>Globally Harmonized System of Classification and Labeling of Chemicals.</td>
</tr>
<tr>
<td>GW/VL</td>
<td>Occupational exposure limit value.</td>
</tr>
<tr>
<td>GW-kw/VL-cd</td>
<td>Occupational exposure limit value - short term.</td>
</tr>
<tr>
<td>GW-M/VL-M</td>
<td>Occupational exposure limit value – &quot;Ceiling&quot;.</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
<tr>
<td>ICAO</td>
<td>International Civil Aviation Organization</td>
</tr>
<tr>
<td>IC50</td>
<td>Inhibition Concentration 50%.</td>
</tr>
<tr>
<td>IECSC</td>
<td>Inventory of Existing Chemical Substances in China.</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods</td>
</tr>
<tr>
<td>ISO</td>
<td>International Standards Organization.</td>
</tr>
<tr>
<td>IUPAC</td>
<td>International Union of Pure and Applied Chemistry</td>
</tr>
<tr>
<td>LC50</td>
<td>Lethal Concentration 50%.</td>
</tr>
<tr>
<td>LCLo</td>
<td>Lowest published lethal concentration.</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal Dose 50%.</td>
</tr>
<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>LOEC</td>
<td>Lowest observable effect concentration.</td>
</tr>
<tr>
<td>LOEL</td>
<td>Lowest observable effect level.</td>
</tr>
<tr>
<td>LQ</td>
<td>Limited quantities</td>
</tr>
<tr>
<td>TRK-Kzw</td>
<td>Threshold limit value - Short-term exposure limit / Technical reference concentration - short-time value, Austria.</td>
</tr>
<tr>
<td>MAK-Mow</td>
<td>Maximum allowable workplace concentration – instantaneous value, Austria.</td>
</tr>
<tr>
<td>MAK-Tmw, TRK-Tmw</td>
<td>Maximum allowable workplace concentration – daily mean value / Technical standard concentration – daily mean value, Austria.</td>
</tr>
<tr>
<td>MAK</td>
<td>Threshold limit values Germany.</td>
</tr>
<tr>
<td>MARPOL</td>
<td>International Convention for the Prevention of Pollution from Ships.</td>
</tr>
<tr>
<td>NOAEC</td>
<td>No-Observed Adverse Effect Concentration</td>
</tr>
<tr>
<td>NOAEL</td>
<td>No-Observed Adverse Effect Level</td>
</tr>
<tr>
<td>NOEC</td>
<td>No-Observed Effect Concentration</td>
</tr>
<tr>
<td>NOEL</td>
<td>no-observed-effect level</td>
</tr>
<tr>
<td>OECD</td>
<td>Organisation for Economic Co-operation and Development</td>
</tr>
<tr>
<td>OEL</td>
<td>Occupational Exposure Limits</td>
</tr>
</tbody>
</table>
PBT: Persistent Bioaccumulative Toxic
PC: Predicted No-Effect Concentration
POCP: Photochemical ozone creation potential.
POP: Persistent Organic Pollutants
PPE: Personal protective equipment
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
SCL: Specific concentration limit.
STEL: Short-term Exposure Limit
TP: Sewage treatment plant
SU: SU (Sector of use)
SVHC: Substance of Very High Concern.
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances (German Standard).
TWA: Time Weighted Average
UVCB: Substances of Unknown or Variable composition, Complex reaction products or Biological materials
VbF: Ordinance on Flammable Liquids, Austria
VOC: Volatile organic compounds
vPvB: Very Persistent and Very Bioaccumulative


Training advice: Normal use of this product shall imply use in accordance with the instructions on the packaging.

Classification according to Regulation (EC) No. 1272/2008
Not classified

Full text of H- and EUH-statements
Asp. Tox. 1: Aspiration hazard, Category 1.
H304: May be fatal if swallowed and enters airways.
EUH210: Safety data sheet available on request.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.