

Safety data sheet

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according to 1907/2006/EC, Article 31 and 830/2015/EC respectively

Printing date: 28.06.2018

**Version number 7

Revision: 27.06.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name: **AVIA FLUID HVI 15**
Application / Use: Hydraulic oil

Article number: 5074

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

Application of the substance / the preparation: Hydraulic oil
Uses advised against: No further relevant information available.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: HERMANN BANTLEON GmbH
Blaubeurer Strasse 32
D - 89077 Ulm
Tel: +49 (0) 731 / 3990-0
Fax: +49 (0) 731 / 3990-10

Further information obtainable from: Department: Product safety
Contact specialist: hse@bantleon.de

1.4 Emergency telephone number:

In case of emergency ONLY:
During working hours (CET):
+49 (0) 731 / 39 90 260 or +49 (0) 731 / 39 90 250
Emergency response (24 hours) CHEMTREC:
+1-703-527-3887 / +1-703-741-5970
+(44)-870-8200418 (United Kingdom)
+(31)-858880596 (Netherlands)
+(61)-290372994 (Australia)
0-800-983-611 (within South Africa)
1-800-424-9300 (within USA & Canada)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008****Hazard pictograms**

The product is classified and labelled according to the CLP regulation.



GHS08

Signal word

Danger

Hazard-determining components of labelling:

Distillates (petroleum), solvent-dewaxed

Distillates (petroleum), hydrotreated

Hazard statements

H304 May be fatal if swallowed and enters airways.

Precautionary statements

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local regulations.

2.3 Other hazards**Results of PBT and vPvB assessment**

High-pressure injections of hydraulic oils under the skin can cause severe injuries.

PBT:

Not applicable.

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vPvB: Not applicable.

SECTION 3: Composition/information on ingredients**3.2 Mixture**

Description: Mixture

Dangerous components:		
CAS: 64742-56-9 EINECS: 265-159-2 Reg.nr.: 01-2119480132-48	Distillates (petroleum), solvent-dewaxed Asp. Tox. 1, H304	50-100%
CAS: 64742-55-8 EINECS: 265-158-7 Reg.nr.: 01-2119487077-29	Distillates (petroleum), hydrotreated Asp. Tox. 1, H304	25-50%
CAS: 128-39-2 EINECS: 204-884-0 Reg.nr.: 01-2119490822-33	2,6-di-tert-butylphenol Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315	≥0.025-<0.25%

Additional information: The wording of the hazard symbols and H-phrases is specified in section 16 if dangerous ingredients are mentioned.
Components with threshold limit values are mentioned at section 8.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information:**

Take affected persons out into the fresh air.
Position and transport stably in side position.
In case of injuries due to high-pressure injections: Take persons affected to hospital immediately, even if no symptoms arise initially or there are no signs of injury to the skin.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Do not induce vomiting; call for medical help immediately.

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

If swallowed or in case of vomiting, danger of entering the lungs.

Information for doctor:

Treat symptomatically.

Hazards

Danger of pulmonary oedema.

Danger of pneumonia.

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

Later observation for pneumonia and pulmonary oedema.
Immediate surgery will possibly be necessary after injuries due to high-pressure injection, in order to keep tissue damage and functional loss to a minimum.
The composition of the injected product is not important for the emergency treatment of these injuries.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:**

CO₂, sand, extinguishing powder.
Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents:

Do not use water with full jet.

5.2 Special hazards arising from the substance or mixture:

In case of fire, the following can be released:
Nitrogen oxides (NO_x)
Carbon monoxide (CO)
Sulphur oxide (SO_x)

5.3 Advice for firefighters**Protective equipment:**

Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
Wear fully protective suit.

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Additional information:

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**Particular danger of slipping on leaked/spilled product.
Wear protective clothing.**6.2 Environmental precautions:**Do not allow to enter sewers, surface or ground water.
Prevent from spreading (e.g. by damming-in or oil barriers).**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sectionsDispose of the material collected according to regulations.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Store in cool, dry place in tightly closed receptacles.

Handling:

When handling product in drums use safety footwear and suitable tools. At work please do not eat, drink or smoke.

Information about fire - and explosion protection:

Fire class DIN EN 2: B

7.2 Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:**Store only in the original receptacle.
Provide floor trough without outlet.
Prevent any seepage into the ground.
Use only receptacles specifically permitted for this substance/product.**Information about storage in one common storage facility:**Store away from foodstuffs.
Store away from oxidising agents.
Store away from water.**Further information about storage conditions:**Keep container tightly sealed.
Protect from humidity and water.
Recommended storage temperature: 5 to 40 °C**Shelf life from date of dispatch:**

Maximum 3 years

7.3 Specific end use(s):

For more information see technical information.

SECTION 8: Exposure controls/personal protection**Additional information about design of technical facilities:**

No further data; see section 7.

8.1 Control parameters**Ingredients with limit values that require monitoring at the workplace:****Additional Occupational Exposure Limit Values for possible hazards during processing:**TLV-TWA oil mist 5 mg/m³**Additional information:**The lists valid during the making were used as basis.
If formation of steam, mist or aerosols take place the concentration in the air has to be kept at the lowest possible level.**8.2 Exposure controls****Personal protective equipment:****General protective and hygienic measures:**The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Avoid close or long term contact with the skin.

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Respiratory protection:	No respiratory protection is ordinarily required under normal conditions of use. Select a filter suitable for combined particulate/ gases and organic vapours (boiling point > 65 ° C, AP2, EN 14387), if exposure limit is exceeded or when aerosol or mist is formed.
Protection of hands:	Safety gloves of nitrile rubber or viton. Preventive skin protection by use of skin-protecting agents is recommended.
Material of gloves	Fluorocarbon rubber (Viton) Nitrile rubber, NBR The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material:	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. Value for the permeation: Level = 6 (480 min)
Eye protection:	Goggles recommended during refilling.
Body protection:	Protective work clothing.

* **SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Fluid
Colour:	Clear
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value: Not determined.

Change in condition

Melting point/freezing point:	Not determined.
Initial boiling point and boiling range:	Not determined.
Drip point:	Not determined.
Pour point:	- 45 °C (DIN ISO 3016)

Flash point: 174 °C (DIN EN ISO 2592)

Flammability (solid, gas): Not applicable.

Ignition temperature: Not determined.

Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: The product shows no danger of explosion, but it may build explosive mixtures with air (by vaporisation, oil mist formation, heating above the flash point).

Explosion limits:

Lower:	0.6 Vol % (typ.)
Upper:	7.0 Vol % (typ.)

Vapour pressure: Not determined.

Density at 15 °C: 0.878 g/cm³ (DIN 51 757)

Relative density Not determined.

Vapour density Not determined.

Evaporation rate Not determined.

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Solubility in / Miscibility with water:

Not miscible or difficult to mix.

Partition coefficient: n-octanol/water:

Not determined.

Viscosity:**Kinematic at 40 °C:**15 mm²/s (DIN EN ISO 3104)**9.2 Other information**

No further relevant information available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

See 10.2 to 10.6

10.2 Chemical stability:

Stable at normal conditions.

Thermal decomposition / conditions to be avoided:

Avoid contact with heat, sparks, flames and all other sources of ignition.

10.3 Possibility of hazardous reactions:

Reacts with strong oxidising agents.

10.4 Conditions to avoid

No specific data available.

10.5 Incompatible materials:

No further relevant information available.

10.6 Hazardous decomposition products:

No dangerous decomposition products known.

Additional information:

Product is not classified as inflammable but can burn.

*** SECTION 11: Toxicological information****11.1 Information on toxicological effects**

These statements are based on data for components of the material or for similar materials.

Acute toxicity

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

LD/LC50 values relevant for classification:**64742-56-9 Distillates (petroleum), solvent-dewaxed**

Oral | LD50 | >5,000 mg/kg (rat)

Dermal | LD50 | >5,000 mg/kg (rabbit)

128-39-2 2,6-di-tert-butylphenol

Oral | LD50 | >5,000 mg/kg (rat)

Primary irritant effect:**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.

by inhalation:

No irritant effect expected.

Respiratory or skin sensitisation

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

Other information (about experimental toxicology):

After swallowing: Swallow and particularly subsequent vomiting can lead to lung damage - pneumonia - pulmonary edema.

Subacute to chronic toxicity:

Prolonged and/or repeated contact may cause defatting of the skin which can lead to dermatitis and may make the skin more susceptible to irritation and penetration by other materials.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Asp. Tox. 1

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**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

May be fatal if swallowed and enters airways.

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SECTION 12: Ecological information**12.1 Toxicity**

Aquatic toxicity:	
64742-56-9 Distillates (petroleum), solvent-dewaxed	
LL/EL/IL50	>100 mg/l (seaweed) >100 mg/l (daphnia) >100 mg/l (fish)
128-39-2 2,6-di-tert-butylphenol	
EC50/48h	0.45 mg/l (daphnia)
EC50/96h	1.2-3.9 mg/l (Pseudokirchneriella subcapitata)
NOEC/21 d	0.035 mg/l (Daphnia magna)

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

The product is not soluble in water. If it enters soil, it will adsorb to soil particles and will not be mobile.

Additional ecological information:**General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow product to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment**PBT:**

Not applicable.

vPvB:

Not applicable.

12.6 Other adverse effects:

No further relevant information available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

13 01 10*	mineral based non-chlorinated hydraulic oils
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Uncleaned packaging:

Empty packing completely. Handover to authorized disposal company.

Recommendation:

Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

SECTION 14: Transport information**14.1 UN-Number**

ADR, ADN, IMDG, IATA

Void

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA

Void

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class

Void

14.4 Packing group

ADR, IMDG, IATA

Void

14.5 Environmental hazards:**Marine pollutant:**

No

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of Marpol and the

IBC Code

Not applicable.

UN "Model Regulation":

Void

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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Directive 2012/18/EU**

**Named dangerous substances - ANNEX I
REGULATION (EC) No 1907/2006 ANNEX XVII
National regulations:**

None of the ingredients is listed.
Conditions of restriction: 3

Information about limitation of use:

Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.

Waterhazard class:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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.

Recommendation of the manufacturer:

Absorb spilled liquid media with AVILUB OELBINDER and dispose in accordance with local regulations. For skin protection when handling water-mixable and not-water-mixable media we recommend application of COVER SKIN.

Relevant phrases

H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Department issuing SDS:

Department: Product safety

Contact:

hse@bantleon.de

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
PBT: Persistent, Bioaccumulative and Toxic
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
vPvB: very Persistent and very Bioaccumulative
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

* Data compared to the previous version altered.

**Information about the version number:

Replaces all previous versions.