

AVIA MINERALÖL AG
81675 München

Date printed 21.08.2014, Revision 21.08.2014

Version 02. Supersedes version: 01

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SECTION 1: Identification of the substance / preparation and of the company

1.1 Product identifier

AVIA SYNTOFLUID PE - B 10, 30

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

1.2.1 Relevant uses

Hydraulics oil

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

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Technical information datenblatt@avia.de

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency phone

Advisory body +49 (0)89-19240 (24h) (english)

Company +49 (0)89-455045-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

see SECTION 16

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

Xn, Harmful - R 20: Harmful by inhalation.

2.2 Label elements

The product is required to be labelled in accordance with EC-Directives.

Labelling according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols



Harmful

Contains: I-Decane, dimmer hydrogenated

R-phrases R 20: Harmful by inhalation.

S-phrases S 9: Keep container in a well-ventilated place.

S 23.5: Do not breathe vapour/spray.

S 36: Wear suitable protective clothing.

S 56: Dispose of this material and its container to hazardous or special waste collection point.

2.3 Other hazards

Human health dangers Has a degreasing effect on the skin.

Environmental hazards Does not contain any PBT or vPvB substances.

Other hazards none

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SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
50 - 100	I-Decane, dimmer hydrogenated
	CAS: 68649-11-6, EINECS/ELINCS: 500-228-5, ECB-Nr.: 01-2119493069-28-XXXX
	GHS/CLP: Acute Tox. 4: H332 - Asp. Tox. 1: H304
	EEC: Xn, R 20-65
≤0,5	Amines, C11-14-branched alkyl, monoheptyl and diheptyl phosphates
	CAS: 80939-62-4, EINECS/ELINCS: 279-632-6
	GHS/CLP: Aquatic Chronic 2: H411 - Eye Irrit. 2: H319 - Skin Irrit. 2: H315
	EEC: Xi-N, R 36/38-51/53
≤0,5	2,6-di-tert-butylphenol
	CAS: 128-39-2, EINECS/ELINCS: 204-884-0, ECB-Nr.: 01-2119490822-33-XXXX
	GHS/CLP: Skin Irrit. 2: H315 - Aquatic Chronic 1: H410
	EEC: Xi-N, R 38-50/53

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For full text of H-statements and R-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Take off contaminated clothing and wash before reuse.
Inhalation	Remove the victim into fresh air and keep him calm. Seek medical advice immediately.
Skin contact	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Seek medical advice immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Carbon dioxide. Water spray jet. Dry powder. Foam.
Extinguishing media that must not be used	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)
Nitrogen oxides (NOx).

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5.3 Advice for firefighters

Use self-contained breathing apparatus.
Do not inhale explosion and/or combustion gases.
Wear full protective suit.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
High risk of slipping due to leakage/spillage of product.
Use personal protective equipment.

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).
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Avoid formation of aerosols.
Keep away from all sources of ignition - Refrain from smoking.
Do not eat, drink, smoke or take drugs at work.
Wash hands before breaks and after work.
Cloths contaminated with product should not be kept in trouser pockets.
Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.
Prevent penetration into the ground.
Provide floor with bunding.
Keep only in original container.
Only use containers that are approved specifically for the substance/product.
Do not store together with food and animal food/diet.
Do not store together with oxidizing agents.
Protect from heat/overheating and from sun.
Keep container tightly closed and store it in a well-ventilated place.
Recommended storage temperature: 5 - 40 °C
Protect from atmospheric moisture and water.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational
exposure limits to be monitored (GB)

not applicable

8.2 Exposure controls

Additional advice on system design Ensure adequate ventilation on workstation.

Eye protection safety glasses

Hand protection Nitrile rubber, >480 min (EN 374).

Viton, >480 min (EN 374).

The details concerned are recommendations. Please contact the glove supplier for further information.

Skin protection Protective clothing.

Other Do not inhale gases/vapours/aerosols.

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.

Respiratory protection If ventilation insufficient, wear respiratory protection.

Short term: filter apparatus, combination filter A-P2.

Thermal hazards No information available.

Delimitation and monitoring of the environmental exposition Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form liquid

Color light yellow

Odor mild

Odour threshold not applicable

pH-value not applicable

pH-value [1%] not applicable

Boiling point [°C] not determined

Flash point [°C] > 150 (DIN ISO 2592)

Flammability [°C] not determined

Lower explosion limit not determined

Upper explosion limit not determined

Oxidizing properties no

Vapour pressure/gas pressure [kPa] not determined

Density [g/ml] 0,810 - 0,828 (DIN 51757) (15 °C / 59,0 °F)

Bulk density [kg/m³] not applicable

Solubility in water immiscible

Partition coefficient [n-octanol/water] not determined

Viscosity 10 - 25,3 mm²/s (40 °C) (DIN 51562)

Relative vapour density determined in air not determined

Evaporation speed not applicable

Melting point [°C] < -54 (DIN ISO 3016) (Drop Point)

Autoignition temperature [°C] not applicable

Decomposition temperature [°C] not applicable

9.2 Other information

No information available.

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SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

10.4 Conditions to avoid

Strong heating.
See SECTION 7.2.

10.5 Incompatible materials

Strong oxidizing agent.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
≤0,5	Amines, C11-14-branched alkyl, monoheptyl and diheptyl phosphates, CAS: 80939-62-4
	LD50, dermal, Rat: > 2000 mg/kg (OECD 402).
	LD50, oral, Rat: > 2000 mg/kg (OECD 401).
50 - 100	I-Decane, dimmer hydrogenated, CAS: 68649-11-6
	LD50, dermal, Rabbit: > 3000 mg/l.
	LD50, oral, Rat: > 5000 mg/l.
	LC50, inhalative, Rat: <2,09 mg/l 4h.

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

Frequent persistent contact with the skin can cause dermatitis.
Has a degreasing effect on the skin.

The product was classified on the basis of the calculation procedure of the preparation directive.

Toxicological data of complete product are not available.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
≤0,5	Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates, CAS: 80939-62-4
	LC50, (96h), Oncorhynchus mykiss: 5,5 mg/l (OECD 203).
	EC50, (72h), Selenastrum capricornutum: > 10 mg/l (OECD 201).
	EC50, (48h), Daphnia magna: 1,2 mg/l (OECD 202).
50 - 100	l-Decane, dimmer hydrogenated, CAS: 68649-11-6
	LC50, (96h), fish: > 1000 mg/l.
	EC50, Algae: > 1000 mg/l.
	EC50, (48h), Daphnia magna: > 1000 mg/l.

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	The product is biodegradable.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

The product is insoluble in water.
Product is immobilized by adsorption to soil particles.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

No classification on the basis of the calculation procedure of the preparation directive.
Ecological data of complete product are not available.
The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.
Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

For recycling, consult manufacturer.

Waste no. (recommended)

130111*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Contaminated packing should be disposed of as product waste.

Waste no. (recommended)

150110*
150102
150104

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SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS 1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

TRANSPORT-REGULATIONS DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4

- Observe employment restrictions for people Observe employment restrictions for young people.
Observe employment restrictions for mothers-to-be and nursing mothers.

- VOC (1999/13/CE) 0 %

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

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

Hazard pictograms



Signal word

WARNING

Acute Tox. 4: H332 Harmful if inhaled.

Classification procedure

Classification according to conversion table Annex VII 1272/2008/EC

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16.2 R-phrases (SECTION 3)

R 20: Harmful by inhalation.
R 65: Harmful - may cause lung damage if swallowed.
R 38: Irritating to skin.
R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 36/38: Irritating to eyes and skin.
R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16.3 Hazard statements (SECTION 3)

H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.
H410 Very toxic to aquatic life with long lasting effects.
H315 Causes skin irritation.
H304 May be fatal if swallowed and enters airways.
H332 Harmful if inhaled.

16.4 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
TLV@TWA = Threshold limit value – time-weighted average
TLV@STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.5 Other information

Modified position

SECTION 2 been added: The product is required to be labelled in accordance with EC-Directives.
SECTION 4 been added: Take off contaminated clothing and wash before reuse.
SECTION 4 deleted: Change soaked clothing.
SECTION 5 been added: In the event of fire the following can be released:
SECTION 5 deleted: Risk of formation of toxic pyrolysis products.
SECTION 7 been added: Take off contaminated clothing and wash before reuse.
SECTION 8 been added: Protect the environment by applying appropriate control measures to prevent or limit emissions.
SECTION 8 deleted: See SECTION 6+7.
SECTION 15 deleted: Chemical safety assessments for substances in this mixture were not carried out.



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