automatic transmission fluid Article number 39095, 39096, 39097, 39098, 107393



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

### 1.1 Product identifier

automatic transmission fluid

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

1.2.1 Relevant uses

Gearbox oil

1.2.2 Uses advised against

None known.

## 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

Address enquiries to

Technical information info@febi.com
Safety Data Sheet info@febi.com

1.4 Emergency telephone number

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

### **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

Skin Sens. 1: H317 May cause an allergic skin reaction.

2.2 Label elements

**Hazard pictograms** 

The product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200

(HCS 2012)

<u>(!</u>)

Signal word WARNING

Contains: 4,4'-Thiodiethylen hydrogen-2-octadecenylsuccinat, CAS: 93882-40-7

Hazard statements H412 Harmful to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction.

**Precautionary statements** P273 Avoid release to the environment.

P501 Dispose of contents/container to in accordance with local/regional/national/international

regulation.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children. P280 Wear protective gloves.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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#### 2.3 Other hazards

Physico-chemical hazards No particular hazards known.

**Human health dangers** Frequent persistent contact with the skin can cause skin irritation.

**Environmental hazards**Does not contain any PBT or vPvB substances.

Contains no ingredients with endocrine-disrupting properties.

Other hazards None

This product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200.

## **SECTION 3: Composition / Information on ingredients**

### 3.1 Substances

Not applicable

#### 3.2 Mixtures

#### The product is a mixture.

Range [%]	Substance
50 - < 100	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based
	CAS: 72623-87-1
1 - < 5	Phenol derivates
1 - < 5	Bis(nonylphenyl)amine
	CAS: 36878-20-3
0,1 - < 1	4,4'-Thiodiethylen hydrogen-2-octadecenylsuccinat
	CAS: 93882-40-7
0,01 - 0,25	Alkyl thiophosphites

**Comment on component parts** For full text of H-statements and R-phrases: see SECTION 16.

Contains less than 3% w/w DMSO-extract (only for mineral oils)

### **SECTION 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 medical treatment.

Skin contact In case of contact with skin wash off immediately 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** Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

Get medical advice.

#### 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

If swallowed or in the event of vomiting, risk of product entering the lungs.

Treat symptomatically.

Forward this sheet to the doctor.

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## **SECTION 5: Fire-fighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media

Foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not

Full water jet

be used

#### 5.2 Special hazards arising from the substance or mixture

Not combusted hydrocarbons.

Risk of formation of toxic pyrolysis products.

Carbon monoxide (CO)

#### 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.

### **SECTION 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

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not discharge into the drains/surface waters/groundwater.

## 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 SECTION 8+13

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

No special measures necessary if used correctly.

The product is combustible.

Do not eat, drink or smoke when using this product.

Use barrier skin cream.

Wash hands before breaks and after work.

Contaminated work clothing should not be allowed out of the workplace.

Take off contaminated clothing and wash before reuse.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store together with food and animal food/diet.

Keep container tightly closed. Protect from heat/overheating.

#### 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 (US)

Substance

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

CAS: 72623-87-1

Long-term exposure: 5 mg/m³, ACGIH, TWA, Oil mist

### **DNEL**

Substance
Bis(nonylphenyl)amine, CAS: 36878-20-3
Industrial, dermal, Long-term - systemic effects, 5 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 2,5 mg/kg bw/day
general population, oral, Long-term - systemic effects, 0,25 mg/kg bw/day
Alkyl thiophosphites
Industrial, inhalative, Long-term - systemic effects, 1,76 mg/m³
Industrial, dermal, Long-term - systemic effects, 0,5 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 0,43 mg/m³
general population, dermal, Long-term - systemic effects, 0,25 mg/kg bw/day
general population, oral, Long-term - systemic effects, 0,25 mg/kg bw/day
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
Industrial, inhalative, Long-term - systemic effects, 2.73 mg/m³
Industrial, inhalative, Long-term - local effects, 5.58 mg/m³
Industrial, dermal, Long-term - systemic effects, 970 μg/kg bw/day
general population, inhalative, Long-term - local effects, 1.19 mg/m³
general population, inhalative, Long-term - systemic effects, 740 μg/kg bw/day
4,4'-Thiodiethylen hydrogen-2-octadecenylsuccinat, CAS: 93882-40-7
Industrial, inhalative, Long-term - systemic effects, 3.526 mg/m³ (AF= 75)
Industrial, dermal, Long-term - systemic effects, 2 mg/kg bw/d (AF= 300)
general population, oral, Long-term - systemic effects, 0.5 mg/kg bw/d (AF= 600)

## **PNEC**

Substance
Bis(nonylphenyl)amine, CAS: 36878-20-3
freshwater, 412 μg/L
seawater, 41.2 µg/L
sediment (freshwater), 1 mg/kg sediment dw
sediment (seawater), 0.1 mg/kg sediment dw
Alkyl thiophosphites
freshwater, 900 ng/l
seawater, 90 ng/l
sewage treatment plants (STP), 54 mg/l
sediment (freshwater), 0,073 mg/kg
sediment (seawater), 0,007 mg/kg
soil, 0,015 mg/kg
oral (food), 10 mg/kg
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1

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oral (food), 9.33 mg/kg food
4,4'-Thiodiethylen hydrogen-2-octadecenylsuccinat, CAS: 93882-40-7
freshwater, 0.009 mg/L (AF= 1000)
seawater, 0.001 mg/L (AF= 10 000)
sewage treatment plants (STP), 100 mg/L (AF= 10)
sediment (freshwater), 542 229.75 mg/kg dw
sediment (seawater), 54 222.98 mg/kg dw
soil, 259 870.48 mg/kg dw
oral (food), 20 mg/kg food (AF=300)

## 8.2 Exposure controls

Additional advice on system design 
Ensure adequate ventilation on workstation.

Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of

hazardous substances.

General limit for oil mist should be noted.

**Eye protection** If there is a risk of splashing:

safety glasses (EN 166:2001)

**Hand protection** The details concerned are recommendations. Please contact the glove supplier for further

information.

> 0,4 mm; Nitrile rubber, >480 min (EN 374-1/-2/-3).> 0,4 mm; Neoprene, >480 min (EN 374-1/-2/-3).

Skin protection light protective clothing

Other Personal protective equipment should be selected specifically for the working place,

depending on concentration and quantity handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier. Avoid contact with eyes and skin.

Not applicable

Thermal hazards No information available.

Delimitation and monitoring of the

environmental exposition

Respiratory protection

Comply with applicable environmental regulations limiting discharge to air, water and soil.

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## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Physical stateLiquidFormLiquidColorgreen-yellowOdorcharacteristicOdor thresholdNot applicablepH-valueNot applicablepH-value [1%]Not applicable

Boiling point or initial boiling point

and boiling range [°C]

No information available.

Flash point [°C]

Flammability No information available.

Lower explosion limit No information available.

Upper explosion limit No information available.

Oxidizing properties No

Vapor pressure/gas pressure [kPa]No information available.Density [g/cm³]0,84 (15 °C / 59,0 °F)Relative densityNo information available.

Bulk density [kg/m³] Not applicable
Solubility in water immiscible

Solubility other solvents No information available.

Partition coefficient n-octanol/water No information available.

(log value)

Kinematic viscosity 26,1 mm<sup>2</sup>/s (DIN 51562)(40° C)

Relative vapour density

Melting point [°C]

Auto-ignition temperature [°C]

Decomposition temperature [°C]

Particle characteristics

No information available.

No information available.

No information available.

9.2 Other information

None

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

No dangerous reactions known if used as directed.

## 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

No dangerous reactions known if used as directed.

#### 10.4 Conditions to avoid

Strong heating

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## 10.5 Incompatible materials

Oxidizing agent Strong basic compounds strong acids

## 10.6 Hazardous decomposition products

No hazardous decomposition products known.

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## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

### Acute oral toxicity

Substance
Bis(nonylphenyl)amine, CAS: 36878-20-3
LD50, oral, Rat, 5000 mg/kg bw
Alkyl thiophosphites
LD50, oral, Rat, > 2000 mg/kg
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
LD50, oral, Rat, 5000 mg/kg bw
4,4'-Thiodiethylen hydrogen-2-octadecenylsuccinat, CAS: 93882-40-7
LD50, oral, Rat, > 10 000 mg/kg bw

#### Acute dermal toxicity

Substance
Alkyl thiophosphites
LD50, dermal, Rabbit, > 500 mg/kg
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
LD50, dermal, Rabbit, 2000 - 5000 mg/kg bw

#### Acute inhalational toxicity

Substance
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
LC50, inhalative, Rat, 2.18 - 5.53 mg/L air, 4h

Serious eye damage/irritation

Based on the information available, the classification criteria have not been fulfilled.

Skin corrosion/irritation

Based on the information available, the classification criteria have not been fulfilled.

Respiratory or skin sensitisation

Toxicological data of complete product are not available.

May cause an allergic skin reaction.

May cause an allergic skin reaction.

Calculation method

Specific target organ toxicity — Basingle exposure

Based on the information available, the classification criteria have not been fulfilled.

Specific target organ toxicity — Based or repeated exposure

Based on the information available, the classification criteria have not been fulfilled.

Substance	
Bis(nonylphenyl)amine, CAS: 36878-20-3	
NOEL, oral, Rat, 100 mg/kg bw/day	
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1	
NOAEL, dermal, Rat, 30 - 2000 mg/kg bw/day	
NOAEC, inhalative, Rat, 980 mg/m³ air	
LOAEL, oral, Rat, 125 mg/kg bw/day	

MutagenicityBased on the information available, the classification criteria have not been fulfilled.Reproduction toxicityBased on the information available, the classification criteria have not been fulfilled.CarcinogenicityBased on the information available, the classification criteria have not been fulfilled.Aspiration hazardBased on the information available, the classification criteria have not been fulfilled.General remarksGeneral remarks

Toxicological data of complete product are not available.

The toxicity data listed pertaining to the ingredients are intended for those working in the

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medicinal professions, experts for occupational health and safety and toxicologists.

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Substance
Bis(nonylphenyl)amine, CAS: 36878-20-3
EC50, (48h), Invertebrates, 100 mg/L
EL50, (72h), Algae, 100 mg/L
NOELR, (21d), Invertebrates, 4.45 mg/L
NOELR, (33d), fish, 10 mg/L
Alkyl thiophosphites
EL50, (48h), Daphnia magna, 0,09 mg/l
EL50, (72h), Selenastrum capricornutum, 0,31 mg/l
LL50, (24h), Oncorhynchus mykiss, 2 mg/l
LL50, (21d), Daphnia magna, 0,22 mg/l
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
NOELR, (14d), fish, 1 g/L
LL50, (4d), Invertebrates, 10 g/L
LL50, (4d), fish, 100 mg/L
4,4'-Thiodiethylen hydrogen-2-octadecenylsuccinat, CAS: 93882-40-7
LC50, (96h), fish, > 100 mg/l (OECD 203)
EL50, (48h), Daphnia magna, 9,5 mg/l (OECD 202)
EL50, (72h), Algae, > 100 mg/l (OECD 201)
Phenol derivates
EC50, (48h), Daphnia magna, > 101 mg/L
NOEC, (21d), Daphnia magna, >= 1 mg/L

### 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 information available.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

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

## 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

## 12.7 Other adverse effects

No classification on the basis of the calculation procedure of the preparation directive.

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## **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

**Product** 

In according to RoHS!

Disposal in an incineration plant in accordance with the regulations of the local authorities.

For recycling, consult manufacturer.

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

RCRA Hazard Class (40CFR 261)

Waste must be disposed of in accordance with federal, state and local environmental control

regulations. Consult your local or regional authorities.

## **SECTION 14: Transport**

#### 14.1 UN number

Transport by land according to

ADR/RID

Not applicable

Inland navigation (ADN) Not applicable

Marine transport in accordance with

**IMDG** 

Not applicable

Air transport in accordance with IATA Not applicable

DOT Road Shipment Information (49 Not applicable

CFR)

14.2 UN proper shipping name

Transport by land according to

ADR/RID

NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

**IMDG** 

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

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

DOT Road Shipment Information (49 Not applicable

CFR)

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#### 14.3 Transport hazard class(es)

Transport by land according to ADR/RID

Not applicable

Inland navigation (ADN)

Not applicable

Marine transport in accordance with **IMDG** 

Air transport in accordance with IATA Not applicable

DOT Road Shipment Information (49 Not applicable CFR)

14.4 Packing group

Transport by land according to ADR/RID

Not applicable

Inland navigation (ADN)

Not applicable

Marine transport in accordance with Not applicable

Air transport in accordance with IATA Not applicable

DOT Road Shipment Information (49 Not applicable CFR)

14.5 Environmental hazards

Transport by land according to

ADR/RID

No

Inland navigation (ADN)

No

Marine transport in accordance with No

**IMDG** 

Air transport in accordance with IATA No

DOT Road Shipment Information (49 No

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

## 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

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## **SECTION 15: Regulatory information**

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

**US Regulations** 

National regulations 29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA,

TSCA, California - Prop. 65

SARA, 302 No information available.
 SARA, 311 No information available.
 SARA, 313 No information available.

- TSCA All chemical substances in this material are included on or exempted from listing on the TSCA

Inventory.

- FDA No information available.

American Conference of Ingredients not listed as carcinogens.

Governmental Industrial Hygienists -

**ACGIH** 

International Agency for Research on Ingredients not listed as carcinogens.

Cancer IARC

National Toxicology Program - NTP No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.

**HAP-VOC** No information available.

Transport-regulations DOT-Classification, ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)

15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

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### **SECTION 16: Other information**

### 16.1 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists;

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;

CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;

CFR = Code of Federal Regulations;

CPR = Controlled Products Regulations;

DMEL = Derived Minimum Effect Level;

DNEL = Derived No Effect Level;

DOT = Department of Transportation;

EC50 = Median effective concentration;

EPA = Environmental Protection Agency;

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;

IARC = International Agency of Research on Cancer;

IATA = International Air Transport Association;

TSCA = Toxic Substance Control Act;

HMIS = Hazardous Materials Identification System;

NFPA = National Fire Protection Association;

NIOSH = National Institute for Occupational Safety and Health;

OSHA = Occupational Safety and Health Administration;

LC50 = Lethal concentration, 50%;

LD50 = Median lethal dose, 50%;

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;

SARA = Superfund Amendments and Reauthorization Act;

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;

## 16.2 Ratings

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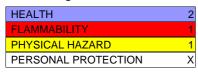
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#### **NFPA Ratings**



TOP, FLAMMABILITY: 1 - Slight Hazard LEFT, HEALTH: 2 - Moderate Hazard RIGHT, REACTIVITY: 1 - Slight Hazard BOTTOM, SPECIAL NOTICE:

#### **HMIS Ratings**



- 2 Moderate Hazard
- 1 Slight Hazard
- 1 Slight Hazard
- X Personal protection rating to be supplied by user depending on use conditions

#### PERSONAL PROTECTION:

- A Safety Glasses
- B Safety Glasses and Gloves
- C Safety Glasses, Gloves and Protection Apron
- D Face Shield, Gloves and Protection Apron
- E Safety Glasses, Gloves and Dust Respirator
- F Safety Glasses, Gloves, Protection Apron and Dust Respirator
- G Safety Glasses, Gloves and Vapor Respirator.
- H Splash Goggles, Gloves, Protection Apron and Vapor Respirator.
- I Safety Glasses, Gloves, Dust Respirator and Vapor Respirator.
- J Splash Goggles, Gloves, Protection Apron, Dust Respirator and Vapor Respirator.
- K Airline Mask or Hood, Gloves, Full Suit and Boots.
- X Personal protection rating to be supplied by user depending on use conditions

## **Modified position**

None