

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

1.1 Product identifier

automatic transmission fluid (ATF)
Article number: 08971, 30017, 194478

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

sdb@chemiebuero.de (No dispatch of safety data sheets)
Safety data sheets are available from the supplier.

1.4 Emergency telephone number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

No classification.

2.2 Label elements

The product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200 (HCS 2012)

Hazard pictograms

None

Signal word

None

Hazard statements

None

Precautionary statements

None

Special labelling

EUH210 Safety data sheet available on request.

2.3 Other hazards

Human health dangers

If swallowed or in the event of vomiting, risk of product entering the lungs.
Frequent persistent contact with the skin can cause skin irritation.

Environmental hazards

Contains no ingredients with endocrine-disrupting properties.
Does not contain any PBT or vPvB substances.

Other hazards

No particular hazards known.

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

SECTION 3: Composition / Information on ingredients

3.1 Substances

Not applicable

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3.2 Mixtures

The product is a mixture.

| Range [%] | Substance |
|-----------|--|
| 30 - < 60 | Distillates (petroleum), hydrotreated light paraffinic CAS: 64742-55-8 |
| 1 - < 2,5 | Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract) CAS: 64742-54-7 |
| 1 - < 2,5 | Base oil CAS: 72623-86-0 |
| 1 - < 2,5 | Methacrylate copolymer |

Comment on component parts For full text of H-statements: 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 | Ensure supply of fresh air. In the event of symptoms seek medical treatment. |
| 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

No information available.

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.
Forward this sheet to the doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

| | |
|--|---|
| Suitable extinguishing media | Fire extinguishing method of surrounding areas must be considered. Carbon dioxide. Dry powder. Foam. |
| Extinguishing media that must not be used | Full water jet. |

5.2 Special hazards arising from the substance or mixture

Not combusted hydrocarbons.
Risk of formation of toxic pyrolysis products.
Sulphur oxides (SOx).
Nitrogen oxides (NOx).

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.
Cool containers at risk with water spray jet.
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

Some risk of slipping due to spillage of product.
Forms slippery surfaces with water.
Ensure adequate ventilation.
Use personal protective equipment (protective gloves, safety glasses, protective clothing).

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 with absorbent material (e.g. general-purpose binder).
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

Avoid formation of aerosols.
The product is combustible.
Fire class (DIN EN 2): B
Do not eat, drink or smoke when using this product.
Use barrier skin cream.
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.
Contaminated work clothing should not be allowed out of the workplace.

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.
Do not store together with oxidizing agents.
Keep container tightly closed.
Keep container in a well-ventilated place.
Protect from heat/overheating.

7.3 Specific end use(s)

See product use, SECTION 1.2



SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (US)

| |
|---|
| Substance |
| Distillates (petroleum), hydrotreated light paraffinic |
| CAS: 64742-55-8 |
| Long-term exposure: 10 mg/m ³ , TWA: mist & aerosol |
| Distillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract) |
| CAS: 64742-54-7 |
| Long-term exposure: 5 mg/m ³ , OSHA, oil mist |

DNEL

| |
|--|
| Substance |
| Distillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7 |
| Industrial, inhalative, Long-term - systemic effects, 2,73 mg/m ³ |
| Industrial, inhalative, Long-term - local effects, 5,58 mg/m ³ |
| Industrial, dermal, Long-term - systemic effects, 970 µg/kg bw/day |
| general population, inhalative, Long-term - local effects, 1,19 mg/m ³ |
| general population, oral, Long-term - systemic effects, 740 µg/kg bw/day |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| Industrial, inhalative, Long-term - systemic effects, 2,73 mg/m ³ |
| Industrial, inhalative, Long-term - local effects, 5,58 mg/m ³ |
| Industrial, dermal, Long-term - systemic effects, 0,97 mg/kg bw/day |
| general population, oral, Long-term - systemic effects, 0,74 mg/kg bw/day |

PNEC

| |
|--|
| Substance |
| Distillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7 |
| oral (food), 9,33 mg/kg |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| oral (food), 9,33 mg/kg food |

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 | 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, >120 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. |
| Respiratory protection | Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, combination filter A-P1. (DIN EN 14387) |
| Thermal hazards | None |
| Delimitation and monitoring of the environmental exposition | Comply with applicable environmental regulations limiting discharge to air, water and soil. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|--|
| Physical state | Liquid |
| Form | Liquid |
| Color | red |
| Odor | mild |
| Odor threshold | No information available. |
| pH-value | Not applicable |
| pH-value [1%] | Not applicable |
| Boiling point or initial boiling point and boiling range [°C] | Not applicable |
| Flash point [°C] | >160 (DIN ISO 2592) |
| Flammability | No information available. |
| Lower explosion limit | No information available. |
| Upper explosion limit | No information available. |
| Oxidizing properties | No |
| Vapor pressure/gas pressure [kPa] | < 0,01 (20°C) |
| Density [g/cm ³] | ca. 0,854 (DIN 51757) (15 °C / 59,0 °F) |
| Relative density | Not determined |
| Bulk density [kg/m ³] | Not applicable |
| Solubility in water | immiscible |
| Solubility other solvents | No information available. |
| Partition coefficient n-octanol/water (log value) | No information available. |
| Kinematic viscosity | ca.38 mm ² /s (40°C) (DIN 51562/T1) 7,1 mm ² /s (100°C) |
| Relative vapour density | No information available. |
| Melting point [°C] | No information available. |
| Auto-ignition temperature [°C] | Not applicable |
| Decomposition temperature [°C] | > 65 |
| Particle characteristics | No information available. |

9.2 Other information

Drop point: ca.-40°C

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

Reactions with oxidizing agents.
Reactions with acids.



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10.4 Conditions to avoid

Strong heating.
Decomposes begins at > 65°C °C.

10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

| |
|--|
| Product |
| ATE-mix, oral, >2000 mg/kg bw |
| Substance |
| Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7 |
| LD50, oral, Rat, 5000 mg/kg bw |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| LD50, oral, Rat, 5000 mg/kg bw |
| Base oil, CAS: 72623-86-0 |
| LD50, oral, Rat, > 2001 mg/kg |

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

| |
|--|
| Product |
| ATE-mix, dermal, >2000 mg/kg bw |
| Substance |
| Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7 |
| LD50, dermal, Rabbit, 2000 - 5 00 mg/kg bw |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| LD50, dermal, Rabbit, > 2000 - 5000 mg/kg bw |
| Base oil, CAS: 72623-86-0 |
| LD50, dermal, Rabbit, > 2001 mg/kg |

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

| |
|--|
| Product |
| ATE-mix, inhalativ (vapor), >20 mg/L |
| Substance |
| Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7 |
| LC50, inhalative, Rat, 2,18 - 5,53 mg/L air, 4h |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| LC50, inhalative, Rat, 2,18 - 5,53 mg/L air 4h, 4h |
| Base oil, CAS: 72623-86-0 |
| LC50, inhalative, Rat, > 5,53 mg/l/4h |

Serious eye damage/irritation Based on the information available, the classification criteria have not been fulfilled.

| |
|---|
| Substance |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| Eye, non-irritating |

Skin corrosion/irritation Based on the information available, the classification criteria have not been fulfilled.

| |
|---|
| Substance |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| dermal, non-irritating |



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Respiratory or skin sensitisation Based on the information available, the classification criteria have not been fulfilled.

| |
|---|
| Substance |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| dermal, non-sensitizing |

Specific target organ toxicity — single exposure Based on the information available, the classification criteria have not been fulfilled.

| |
|---|
| Substance |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| inhalative, no adverse effect observed |

Specific target organ toxicity — repeated exposure Based on the information available, the classification criteria have not been fulfilled.

| |
|---|
| Substance |
| Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7 |
| NOAEL, dermal, Rat, 30 - 2000 mg/kg bw/day |
| NOAEL, dermal, Rabbit, 1000 mg/kg bw/day |
| NOAEC, inhalative, Rat, 980 mg/m ³ air |
| LOAEL, oral, Rat, 125 mg/kg bw/day |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| NOAEC, inhalative, Rat, 980 mg/m ³ (subacute), no adverse effect observed |
| LOAEL, oral, Rat, 125 mg/kg bw/day, The effects observed are not sufficient for classification. |
| LOAEL, dermal, mouse, 100 mg/kg bw/day (chronic), The effects observed are not sufficient for classification. |

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

| |
|---|
| Substance |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| in vitro, negativ |

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

- Fertility

| |
|--|
| Substance |
| Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7 |
| NOAEL, oral, Rat, 1000 mg/kg bw/d (Effect on fertility), no adverse effect observed |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| NOAEL, oral, Rat, 1000 mg/kg bw/d, no adverse effect observed |

- Development

| |
|--|
| Substance |
| Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7 |
| NOAEL, oral, Rat, 1000 mg/kg bw/d (Effect on fertility), no adverse effect observed |

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

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

General remarks

Toxicological data of complete product are not available.

SECTION 12: Ecological information

12.1 Toxicity

| |
|--|
| Substance |
| Distillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7 |
| EL50, (48h), Invertebrates, 10 g/L |
| NOELR, (14d), fish, 1 mg/L |
| LL50, (96h), Invertebrates, 10 g/L |
| LL50, (96h), fish, 100 mg/L |
| Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
| NOELR, (14d), fish, 1 g/L |
| LL50, (96h), Invertebrates, 10 g/L |
| LL50, (96h), fish, 100 mg/L |

12.2 Persistence and degradability

| | |
|--|---|
| Behaviour in environment compartments | No information available. |
| Behaviour in sewage plant | No information available. |
| Biological degradability | The product is only slightly biodegradable. |

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

Ecological data of complete product are not available.
Do not discharge product unmonitored into the environment or into the drainage.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

In according to RoHS!
Coordinate disposal with the authorities if necessary.

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.



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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 CFR) Not applicable

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"

DOT Road Shipment Information (49 CFR) Not applicable

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 Not applicable

Air transport in accordance with IATA Not applicable

DOT Road Shipment Information (49 CFR) Not applicable



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14.4 Packing group

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 CFR) Not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID No

Inland navigation (ADN) No

Marine transport in accordance with IMDG No

Air transport in accordance with IATA No

DOT Road Shipment Information (49 CFR) 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

Not applicable



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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

This product does not contain any ingredients regulated under this list.

- SARA, 311

This product does not contain any ingredients regulated under this list.

- SARA, 313

This product does not contain any ingredients regulated under this list.

- CA Proposition 65

No components require labeling under California Proposition 65.

- TSCA

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

- FDA

Not applicable

American Conference of Governmental Industrial Hygienists - ACGIH

A4: Not classifiable as a human carcinogen.

International Agency for Research on Cancer IARC

IARC: Not classifiable as to carcinogenicity to humans.

National Toxicology Program - NTP

This product is not named NTP - National Toxicology Program.

HAP-VOC

Not applicable

Transport-regulations

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

15.2 Chemical safety assessment

Not applicable

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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NFPA Ratings



TOP, FLAMMABILITY: 1 - Slight Hazard
LEFT, HEALTH: 1 - Slight Hazard
RIGHT, REACTIVITY: 0 - Minimal Hazard
BOTTOM, SPECIAL NOTICE: None

HMIS Ratings

| | |
|---------------------|---|
| HEALTH | 1 |
| FLAMMABILITY | 1 |
| PHYSICAL HAZARD | 0 |
| PERSONAL PROTECTION | X |

1 - Slight Hazard
1 - Slight Hazard
0 - Minimal 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