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Date printed 23.10.2019, Revision 23.10.2019

Version 08. Supersedes version: 07

Page 1 / 10

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

1.1 Product identifier

febi 39070 - Gear oil

Article number: 39070, 39071, 109672

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 [REGULATION (EC) No 1272/2008]

No classification.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictogramsnoneSignal wordnoneHazard statementsnonePrecautionary statementsnone

Special labelling EUH210 Safety data sheet available on request.

Contains: 4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate. EUH208 May produce an

allergic reaction.

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 Does not contain any PBT or vPvB substances.

Other hazards Further hazards were not determined with the current level of knowledge.

ebi bilstein

Ferdinand Bilstein GmbH + Co. KG

Date printed 23.10.2019, Revision 23.10.2019

Version 08. Supersedes version: 07

Page 2 / 10

SECTION 3: Composition / Information on ingredients

Product-type:

3.2 The product is a mixture.

Range [%]	Substance
50 - < 100	Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract)
	CAS: 64742-54-7, EINECS/ELINCS: 265-157-1, EU-INDEX: 649-467-00-8, Reg-No.: 01-2119484627-25-XXXX
	GHS/CLP: Asp. Tox. 1: H304
0,1 - < 1	4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate
	CAS: 93882-40-7, EINECS/ELINCS: 299-434-3
	GHS/CLP: Skin Sens. 1: H317

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: 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.

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.

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 Foam, dry powder, water spray jet, carbon dioxide.

Extinguishing media that must not

be used

Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

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Ferdinand Bilstein GmbH + Co. KG

Date printed 23.10.2019, Revision 23.10.2019

Version 08. Supersedes version: 07

Page 3 / 10

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.

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. oil binder).

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

Avoid formation of aerosols.

Use only in well-ventilated areas.

The product is combustible.

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

After worktime and before work breaks the affected skin areas must be thoroughly cleaned.

Use barrier skin cream.

Cloths contaminated with product should not be kept in trouser pockets.

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 in a well-ventilated place.

Keep container tightly closed.

7.3 Specific end use(s)

See product use, SECTION 1.2



Ferdinand Bilstein GmbH + Co. KG

Date printed 23.10.2019, Revision 23.10.2019

Version 08. Supersedes version: 07

Page 4 / 10

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance

Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract)

CAS: 64742-54-7, EINECS/ELINCS: 265-157-1, EU-INDEX: 649-467-00-8, Reg-No.: 01-2119484627-25-XXXX

Long-term exposure: 5 mg/m³, oil mist

Short-term exposure (15-minute): 10 mg/m³

DNEL

Substance

Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7

Industrial, dermal, Long-term - systemic effects: 1 mg/kg bw/day.

Industrial, inhalative, Long-term - local effects: 5,6 mg/m³.

Industrial, inhalative, Long-term - systemic effects: 2,7 mg/m3.

general population, oral, Long-term - systemic effects: 0,74 mg/kg bw/day.

PNEC

Substance

Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7

oral (food), 9,33 mg/kg.

8.2 Exposure controls

Additional advice on system design

Ensure adequate ventilation on workstation.

General exposure limit for oil mist should be noted.

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.

Eye protection Safety glasses. (EN 166:2001)

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

information

> 0,4mm: Nitrile rubber, >120 min (EN 374-1/-2/-3).

> 0,4mm: butyl rubber, > 120 min (EN 374)

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.

Do not inhale gases/vapours/aerosols. 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-P2. (DIN EN 14387)

Thermal hazards No information available.

Delimitation and monitoring of the

environmental exposition

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

ebi bilstein

Ferdinand Bilstein GmbH + Co. KG

Date printed 23.10.2019, Revision 23.10.2019

Version 08. Supersedes version: 07

Page 5 / 10

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form liquid

Color light yellow

Odor characteristic

Odour threshold No information available.

Boiling point [°C] No information available.

Flash point [°C] 210 (EN ISO 2592)(COC)

Flammability (solid, gas) [°C] Not explosive.

Lower explosion limitNo information available.Upper explosion limitNo information available.

Oxidising properties no

Vapour pressure/gas pressure [kPa] No information available.

Density [g/ml] 0,84 (DIN 51757) (15 °C / 59,0 °F)

Bulk density [kg/m³] not applicable

Solubility in water virtually insoluble

Partition coefficient [n-octanol/water] No information available.

Viscosity 33,2 mm²/s 40°C (DIN 51562)

Relative vapour density determined

in air

No information available.

Evaporation speed No information available.

Melting point [°C] No information available.

Autoignition temperature [°C] not applicable

Decomposition temperature [°C]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

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

No special measures necessary.

10.5 Incompatible materials

Oxidizing agent Strong basic compounds strong acids

10.6 Hazardous decomposition products

No hazardous decomposition products known.

ebi bilstein

Ferdinand Bilstein GmbH + Co. KG

Date printed 23.10.2019, Revision 23.10.2019

Version 08. Supersedes version: 07

Page 6 / 10

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product

inhalative, Based on the available information, the classification criteria are not fulfilled.:

dermal, Based on the available information, the classification criteria are not fulfilled.:

ATE-mix, oral, > 5000 mg/kg bw.

Substance

Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7

LD50, dermal, Rabbit: > 2000 mg/kg.

LD50, oral, Rat: > 5000 mg/kg.

LC50, dermal, Rat: 2,18 mg/l.

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

Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

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

May produce an allergic reaction.

Calculation method

Specific target organ toxicity —

single exposure

Specific target organ toxicity —

repeated exposure

Based on the available information, the classification criteria are not fulfilled.

Based on the available information, the classification criteria are not fulfilled.

Based on the available information, the classification criteria are not fulfilled.

Based on the available information, the classification criteria are not fulfilled.

Based on the available information, the classification criteria are not fulfilled.

Mutagenicity

Reproduction toxicity

Carcinogenicity

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

On basis of test data

General remarks

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

Product

Based on the available information, the classification criteria are not fulfilled.:

Substance

Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7

EL50, (24h), Daphnia magna: > 10000 mg/l.

NOELR, (14d), Oncorhynchus mykiss: >= 1000 mg/l.

LL50, (96h), Pimephales promelas: >100 mg/l.

NOEL, (72h), Pseudokirchneriella subcapitata: >= 100 mg/l

NOEL, (21d), Daphnia magna: 10 mg/l.

Ferdinand Bilstein GmbH + Co. KG

Date printed 23.10.2019, Revision 23.10.2019

Version 08. Supersedes version: 07

Page 7 / 10

12.2 Persistence and degradability

Behaviour in environment

Behaviour in sewage plant

not determined

compartments

not determined

not determined

12.3 Bioaccumulative potential

Biological degradability

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 Other adverse effects

Ecological data of complete product are not available.

Do not discharge product unmonitored into the environment or into the drainage.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material c 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

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

In according to RoHS!

Waste no. (recommended) 130205* mineral-based non-chlorinated engine, gear and lubricating oils

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

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

Waste no. (recommended)

150102 150104

SECTION 14: Transport information

14.1 UN number

Transport by land according to

not applicable

ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with not applicable

IMDG

Air transport in accordance with IATA not applicable

Ferdinand Bilstein GmbH + Co. KG

Date printed 23.10.2019, Revision 23.10.2019

Version 08. Supersedes version: 07

Page 8 / 10

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 NOT CLASSIFIED AS "DANGEROUS GOODS"

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

14.3 Transport hazard class(es)

Transport by land according to

not applicable

ADR/RID

Inland navigation (ADN)

not applicable

Marine transport in accordance with not applicable

IMDG

Air transport in accordance with IATA not applicable

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

IMDG

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to

no

ADR/RID

Inland navigation (ADN)

Marine transport in accordance with no

IMDG

Air transport in accordance with IATA 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

ebi bilstein

Ferdinand Bilstein GmbH + Co. KG

Date printed 23.10.2019, Revision 23.10.2019

Version 08. Supersedes version: 07

Page 9 / 10

SECTION 15: Regulatory information

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

EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008;

75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)

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

- Observe employment restrictions

for people

no

- VOC (2010/75/CE) 0 %

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways.

16.2 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 ATE = acute toxicity estimate

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

LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

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

16.3 Other information

Classification procedure

Modified position none



Ferdinand Bilstein GmbH + Co. KG

Date printed 23.10.2019, Revision 23.10.2019

Version 08. Supersedes version: 07

Page 10 / 10