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

1.1 Product identifier

Motoröl SAE 5W-30 Truck Special Longlife EU6
Article number: 194781, 194792, 194812

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 (GB) CLP]

No classification.

2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms none

Signal word none

Hazard statements none

Precautionary statements none

Special labelling EUH210 Safety data sheet available on request.

Contains: Polyoxyalkylen, Coconut oil, reaction products with boric acid, diethanolamine and glycerol, Calcium sulfonate. EUH208 May produce an allergic reaction.

2.3 Other hazards

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

Other hazards No particular hazards known.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
20 - < 50	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based
	CAS: 72623-87-1, EINECS/ELINCS: 276-738-4, EU-INDEX: 649-483-00-5, Reg-No.: 01-2119474889-13-XXXX
	GHS/CLP: Asp. Tox. 1: H304
1 - < 5	Polyoxyalkylen
	GHS/CLP: Skin Sens. 1: H317
	SCL [%]: >= 2,51: Skin Sens. 1: H317
1 - < 5	Benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroy-, C7-C9-branched alkyl ester
	CAS: 125643-61-0, EINECS/ELINCS: 406-040-9, EU-INDEX: 607-530-00-7, Reg-No.: 01-0000015551-76-XXXX
	GHS/CLP: Aquatic Chronic 4: H413
0,1 - < 1	Calcium sulfonate
	GHS/CLP: Skin Sens. 1B: H317
0,1 - < 1	Calcium sulfonate
	EINECS/ELINCS: Polymer
	GHS/CLP: Skin Sens. 1B: H317
	SCL [%]: >= 2: Skin Sens. 1B: H317
0,1 - < 1	Coconut oil, reaction products with boric acid, diethanolamine and glycerol
	CAS: 1428353-74-5, EINECS/ELINCS: 806-731-9, Reg-No.: 01-2120067755-46-XXXX
	GHS/CLP: Eye Irrit. 2: H319 - Skin Sens. 1B: H317 - Aquatic Chronic 2: H411

Comment on component parts For full text of H-statements: 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 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 Do not induce vomiting.
Seek medical advice immediately.

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

Treat symptomatically.
Forward this sheet to your 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.
Carbon monoxide (CO)
Sulphur oxides (SOx).
Nitrogen oxides (NOx).

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.
Cool containers at risk with water spray jet.

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.
Do not discharge into the subsoil/soil.

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.

Keep away from all sources of ignition - Refrain from smoking.

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.
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

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (UK)

not relevant

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

DNEL

Substance
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
Benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroy-, C7-C9-branched alkyl ester, CAS: 125643-61-0
Industrial, inhalative, Long-term - systemic effects, 2.33 mg/m³
Industrial, inhalative, Acute - systemic effects, 1750 mg/m³
Industrial, dermal, Long-term - systemic effects, 220 µg/kg bw/day
Industrial, dermal, Acute - systemic effects, 20 mg/kg bw/day
Industrial, dermal, Long-term - local effects, 6 µg/cm²
Industrial, dermal, Acute - local effects, 1 mg/cm²
general population, inhalative, Long-term - systemic effects, 740 µg/m³
general population, inhalative, Acute - systemic effects, 875 mg/m³
general population, dermal, Long-term - systemic effects, 330 µg/kg bw/day
general population, dermal, Acute - local effects, 8.33 mg/cm²
general population, oral, Long-term - systemic effects, 160 µg/kg bw/day
general population, oral, Acute - systemic effects, 50 mg/kg bw/day
Coconut oil, reaction products with boric acid, diethanolamine and glycerol, CAS: 1428353-74-5
Industrial, inhalative, Long-term - systemic effects, 800 µg/m³
Industrial, dermal, Long-term - systemic effects, 1.1 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 200 µg/m³
general population, dermal, Long-term - systemic effects, 600 µg/kg bw/day
general population, oral, Long-term - systemic effects, 100 µg/kg bw/day

PNEC

Substance
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
oral (food), 9.33 mg/kg food
Benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroy-, C7-C9-branched alkyl ester, CAS: 125643-61-0
freshwater, 4.3 - 30 µg/L
seawater, 30 - 1800 ng/L
sewage treatment plants (STP), 1 - 100 mg/L
sediment (freshwater), 370 - 233000 µg/kg sediment dw
soil, 50 - 189000 µg/kg soil dw
sediment (seawater), 37 - 23300 µg/kg sediment dw
oral (food), 41.33 mg/kg food

Coconut oil, reaction products with boric acid, diethanolamine and glycerol, CAS: 1428353-74-5
freshwater, 7 µg/L
seawater, 700 ng/L
sewage treatment plants (STP), 10 mg/L
sediment (freshwater), 16.74 mg/kg sediment dw
sediment (seawater), 1.67 mg/kg sediment dw
soil, 13.59 mg/kg soil dw

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. Nitrile rubber, >120 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. Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin.
Respiratory protection	Not required under normal conditions.
Thermal hazards	No information available.
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	brown
Odor	characteristic
Odour threshold	No information available.
pH-value	No information available.
pH-value [1%]	No information available.
Boiling point or initial boiling point and boiling range [°C]	not applicable
Flash point [°C]	224 (EN ISO 2592)(COC)
Flammability	No information available.
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/cm³]	0,85 (15 °C / 59,0 °F)
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	virtually insoluble
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	No information available.
Kinematic viscosity	71,9 mm²/s (40°C)
Relative vapour density	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature [°C]	not applicable
Decomposition temperature [°C]	No information available.
Particle characteristics	No information available.

9.2 Other information

No information available.

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 acids, alkalies and oxidizing agents.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Strong oxidizing agent.
Strong acids.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

Substance
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
LD50, oral, Rat, 5000 mg/kg bw
Benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroy-, C7-C9-branched alkyl ester, CAS: 125643-61-0
LD50, oral, Rat, 500 - 2000 mg/kg bw
Coconut oil, reaction products with boric acid, diethanolamine and glycerol, CAS: 1428353-74-5
LD50, oral, Rat, 200 mg/kg bw

Acute dermal toxicity

Substance
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
LD50, dermal, Rabbit, 2000 - 5000 mg/kg bw
Benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroy-, C7-C9-branched alkyl ester, CAS: 125643-61-0
LD50, dermal, Rat, 2000 mg/kg bw
Coconut oil, reaction products with boric acid, diethanolamine and glycerol, CAS: 1428353-74-5
LC50, dermal, Rat, 2000 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 available information, the classification criteria are not fulfilled.
Non-irritant.
Analogous to product with a similar composition.
On basis of test data

Substance
Coconut oil, reaction products with boric acid, diethanolamine and glycerol, CAS: 1428353-74-5
Eye, Rabbit, OECD 405, irritant

Skin corrosion/irritation

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

Substance
Coconut oil, reaction products with boric acid, diethanolamine and glycerol, CAS: 1428353-74-5
dermal, Rabbit, OECD 404, non-irritating

Respiratory or skin sensitisation

Toxicological data of complete product are not available.
May produce an allergic reaction.
Calculation method

Product
dermal, non-sensitizing

Substance
Coconut oil, reaction products with boric acid, diethanolamine and glycerol, CAS: 1428353-74-5
dermal, mouse, OECD 429, sensitising

Specific target organ toxicity —

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

single exposure

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

Substance
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
Benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroy-, C7-C9-branched alkyl ester, CAS: 125643-61-0
NOAEL, oral, Rat, 3 - 750 mg/kg bw/day
NOAEL, dermal, Rat, 500 - 1000 mg/kg bw/day
Coconut oil, reaction products with boric acid, diethanolamine and glycerol, CAS: 1428353-74-5
NOAEL, dermal, Rat, 1000 mg/kg bw/day

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

Substance
Coconut oil, reaction products with boric acid, diethanolamine and glycerol, CAS: 1428353-74-5
in vitro, OECD 471, negativ

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

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

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

General remarks

Toxicological data of complete product are not available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties Contains no ingredients with endocrine-disrupting properties.

11.2.2 Other information none

SECTION 12: Ecological information

12.1 Toxicity

Substance
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
Benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroy-, C7-C9-branched alkyl ester, CAS: 125643-61-0
LC50, (14d), fish, 100 mg/L
EC50, (48h), Invertebrates, 8.2 - 1000000 µg
EC50, (72h), Algae, 180 - 3000000 ng/L
EC50, (3h), Water microorganisms, 100 - 1000 mg/L
NOEC, (21d), Invertebrates, 10 µg/L
NOEC, (33d), fish, 360 µg/L
Coconut oil, reaction products with boric acid, diethanolamine and glycerol, CAS: 1428353-74-5
EC50, (72h), Algae, 2.2 - 7.4 mg/L
NOEC, (28d), fish, 320 µg/L
NOEC, (21d), Invertebrates, 70 µg/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

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 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

	Coordinate disposal with the authorities if necessary.
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)	150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID 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

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)

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

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

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

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS	2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707
- Comment on component parts	Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
- Annex XIV (REACH)	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances ≥ 0.1% that are subject to authorisation.
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1% of substances with the following restrictions. 75
	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is not subject to any restrictions.
TRANSPORT-REGULATIONS	ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)
NATIONAL REGULATIONS (UK):	EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.
- Observe employment restrictions for people	not applicable
- VOC (2010/75/CE)	not relevant

15.2 Chemical safety assessment

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

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H411 Toxic to aquatic life with long lasting effects.
H319 Causes serious eye irritation.

H413 May cause long lasting harmful effects to aquatic life.
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
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
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
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
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