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

1.1 Product identifier

febi 32936 Engine Oil 5W - 40

Article number: 32936, 32937, 32938, 32939, 32940, 72936, 72938,

72939, 77940

UFI: 6Q6X-920V-P00J-M6XR

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

1.2.1 Relevant uses

Engine oil

1.2.2 Uses advised against

For all uses not specified in SECTION 1.2.1

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 pictogramsnoneSignal wordnoneHazard statementsnonePrecautionary statementsnone

Special labelling EUH210 Safety data sheet available on request.

2.3 Other hazards

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

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

Environmental hazardsDoes not contain any PBT or vPvB substances.

Other hazards none

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	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
1 - < 2,5	Phenol, dodecyl-, sulfoniert, Carbonate, Calciumsalze, überbasisch
	CAS: 68784-26-9, EINECS/ELINCS: 272-234-3, Reg-No.: 01-2119524004-56-XXXX
	GHS/CLP: Aquatic Chronic 4: H413
1 - < 2,5	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts
	CAS: 68784-31-6, EINECS/ELINCS: 272-238-5, Reg-No.: 01-2119657973-23-XXXX
	GHS/CLP: Eye Dam. 1: H318 - Aquatic Chronic 2: H411

Comment on component parts All chemical substances in this material are included on or exempted from listing on the

IECSC Inventory.

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 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 Consult a doctor 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

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

Not combusted hydrocarbons.

Risk of formation of toxic pyrolysis products.

Phosphorus oxides (POx). Sulphur oxides (SOx). Nitrogen oxides (NOx).

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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.

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

Do not smoke.

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.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store together with oxidizing agents.

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 (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, 970 μg/kg bw/day		
Industrial, inhalative, Long-term - local effects, 5.58 mg/m³		
Industrial, inhalative, Long-term - systemic effects, 2.73 mg/m³		
general population, oral, Long-term - systemic effects, 740 μg/kg bw/day		
general population, inhalative, Long-term - local effects, 1.19 mg/m³		
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts, CAS: 68784-31-6		
Industrial, inhalative, Acute - systemic effects, 496,4 mg/m³		
Industrial, dermal, Long-term - systemic effects, 10,42 mg/kg bw/d		
Industrial, dermal, Acute - systemic effects, 100 mg/kg bw/d		
Industrial, inhalative, Long-term - systemic effects, 2,93 mg/m³		
general population, oral, Long-term - systemic effects, 0,21 mg/kg bw/d		
general population, inhalative, Acute - systemic effects, 11,75 mg/m³		
general population, inhalative, Acute - systemic effects, 198,6 mg/m³		
general population, dermal, Acute - systemic effects, 50 mg/kg bw/d		
general population, oral, Acute - systemic effects, 29 mg/kg bw/d		
general population, dermal, Long-term - systemic effects, 2,1 mg/kg bw/d		
Phenol, dodecyl-, sulfoniert, Carbonate, Calciumsalze, überbasisch, CAS: 68784-26-9		
There are no DNEL values established for the substance.		

PNEC

Substance		
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7		
oral (food), 9,33 mg/kg		
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts, CAS: 68784-31-6		
oral (food), 8,33 mg/kg		
soil, 0,0548 mg/kg		
sewage treatment plants (STP), 3,8 mg/l		
sediment (freshwater), 0,0701 mg/l		
sediment (seawater), 0,00701 mg/l		
freshwater, 0,0040 mg/l		
seawater, 0,0046 mg/l		
Phenol, dodecyl-, sulfoniert, Carbonate, Calciumsalze, überbasisch, CAS: 68784-26-9		
There are no PNEC values established for the substance.		

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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 exposure limit for oil mist should be noted.

Eye protection If there is a risk of splashing:

safety glasses

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

information.

> 0,11 mm; Nitrile rubber, >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

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

Information on basic physical and chemical properties

Physical state liauid

Color yellow-brown Odor characteristic Odour threshold not applicable pH-value not applicable pH-value [1%] not applicable

Boiling point [°C] No information available.

Flash point [°C] > 200 (ISO 2592)

Flammability (solid, gas) [°C] No information available. Lower explosion limit No information available. Upper explosion limit No information available.

Oxidising properties

Vapour pressure/gas pressure [kPa] < 0,01 (20°C)

0,858 (DIN 51757) (15 °C / 59,0 °F) Density [g/cm³]

Relative density not determined Bulk density [kg/m³] not applicable Solubility in water immiscible

Solubility other solvents No information available. Partition coefficient [n-octanol/water] No information available. Kinematic viscosity

> 20,5 mm²/s (40° C)

ca. 13,5 - 15 mm2/s (100°C) (DIN 51562/T1)

Relative vapour density No information available. **Evaporation speed** No information available. Melting point [°C] ca. -36(ISO 3016) **Auto-ignition temperature** No information available. Decomposition temperature [°C] No information available. Particle characteristics No information available.

ebi bilstein

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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

Reactions with strong oxidizing agents.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous decomposition products

In the case of heating following (decomposition) products may occure: Hydrogen sulfide (H2S).

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SECTION 11: Toxicological information

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

Acute oral toxicity

Product

oral, 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

LD50, oral, Rat, 5000 mg/kg bw

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts, CAS: 68784-31-6

LD50, oral, Rat, 2900 - 3400 mg/kg bw

Acute dermal toxicity

Product

dermal, 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

LD50, dermal, Rabbit, 2000 - 5 00 mg/kg bw

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts, CAS: 68784-31-6

LD50, dermal, Rabbit, 5000 mg/kg bw

Acute inhalational toxicity

Product

inhalative, 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

LC50, inhalative, Rat, 2.18 - 5.53 mg/L air, 4h

On basis of test data Serious eye damage/irritation

Non-irritant.

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.

Calculation method

Specific target organ toxicity —

single exposure

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

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

Substance

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

NOAEL, dermal, Rabbit, 1000 mg/kg bw/day

NOAEL, dermal, Rat, 30 - 2000 mg/kg bw/day

NOAEC, inhalative, Rat, 980 mg/m³ air

LOAEL, oral, Rat, 125 mg/kg bw/day

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts, CAS: 68784-31-6

NOAEL, oral, Rat, 125 mg/kg bw/day

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

Reproduction toxicity

No classification.
Calculation method

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

CarcinogenicityBased on the available information, the classification criteria are not fulfilled.Aspiration hazardBased on the available information, the classification criteria are not fulfilled.

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.

11.2 Information on other hazards

Endocrine disrupting properties No information available.

Other information none

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, (48h), Invertebrates, 10 g/L

NOELR, (14d), fish, 1 mg/L

LL50, (96h), Invertebrates, 10 g/L

LL50, (96h), fish, 100 mg/L

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts, CAS: 68784-31-6

LC50, (4d), fish, 46 mg/L

IC50, (21d), Invertebrates, 530 - 800 μg/L

EL50, (72h), Algae, 240 - 410 mg/L

EL50, (48h), Invertebrates, 75 mg/L

NOEC, (21d), Invertebrates, 400 - 800 μg/L

NOELR, (48h), Invertebrates, 32 mg/L

NOELR, (4d), fish, 3.2 mg/L

LL50, (4d), fish, 4.4 mg/L

LOEC, (21d), Invertebrates, 800 μg/L

12.2 Persistence and degradability

Behaviour in environment

compartments

not determined

Behaviour in sewage plant

Can be separated out mechanically in purification plants.

Biological degradability T

The product is only slightly biodegradable. Slightly eliminable from water.

12.3 Bioaccumulative potential

No information available.

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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

No information available.

12.7 Other adverse effects

Ecological data of complete product are not available.

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

In according to RoHS!

Coordinate disposal with the disposal contractor/authorities if necessary.

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

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

vith not applicable

IMDG

Air transport in accordance with IATA not applicable

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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"

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 not applicable

IMDG

Air transport in accordance with IATA not applicable

14.4 Packing group

ADR/RID

Transport by land according to

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

ADR/RID

IMDG

no

Inland navigation (ADN)

no

Marine transport in accordance with 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

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SECTION 15: Regulatory information

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

EEC-REGULATIONS 2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006

(REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131;

(EU) 517/2014

TRANSPORT-REGULATIONS ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)

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

REACH; GB CLP.

- Observe employment restrictions

for people

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

employment restrictions for young people.

- VOC (2010/75/CE) 0 %

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.

H318 Causes serious eye damage.

H304 May be fatal if swallowed and enters airways. H413 May cause long lasting harmful effects to aquatic life.

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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

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Modified position

SECTION 3 been added: Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract)

SECTION 3 deleted: Polyolefine polyamine succinimide, polyol

SECTION 3 deleted: Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based SECTION 3 deleted: Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts

SECTION 3 deleted: Bis(nonylphenyl)amine

SECTION 3 deleted: Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased**

SECTION 3 deleted: Phenol, dodecyl-, branched

SECTION 2 deleted: Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs.,

calcium salts

SECTION 3 been added: Phenol, dodecyl-, sulfoniert, Carbonate, Calciumsalze, überbasisch

SECTION 2 been added: EUH210 Safety data sheet available on request.

SECTION 2 deleted: WARNING

SECTION 2 deleted: H319 Causes serious eye irritation.

SECTION 2 deleted: Eye Irrit. 2

SECTION 2 deleted: H317 May cause an allergic skin reaction.

SECTION 2 deleted: Skin Sens. 1

SECTION 2 deleted: H412 Harmful to aquatic life with long lasting effects.

SECTION 2 deleted: Aquatic Chronic 3 SECTION 2 deleted: exclamation mark