

## 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](http://www.febi.com)  
E-mail [info@febi.com](mailto:info@febi.com)

#### Address enquiries to

**Technical information** [info@febi.com](mailto:info@febi.com)  
**Safety Data Sheet** [info@febi.com](mailto: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]

Eye Irrit. 2: H319 Causes serious eye irritation.  
Skin Sens. 1: H317 May cause an allergic skin reaction.  
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

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

#### Hazard pictograms



#### Signal word

WARNING

#### Contains:

Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts

#### Hazard statements

H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P280 Wear protective gloves / eye protection / face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333+P313 If skin irritation or rash occurs: Get medical advice / attention.  
P501 Dispose of contents / container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

### 2.3 Other hazards

<b>Human health dangers</b>	Frequent persistent contact with the skin can cause skin irritation. If swallowed or in the event of vomiting, risk of product entering the lungs.
<b>Environmental hazards</b>	Does not contain any PBT or vPvB substances.
<b>Other hazards</b>	none

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

not applicable

### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
30 - < 60	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	Polyolefine polyamine succinimide, polyol CAS: 147880-09-9, EINECS/ELINCS: Polymer GHS/CLP: Aquatic Chronic 4: H413
1 - < 2,5	Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased** EINECS/ELINCS: 701-251-5 GHS/CLP: Aquatic Chronic 4: H413, M-Factor (acute): 1
1 - < 2,5	Bis(nonylphenyl)amine CAS: 36878-20-3, EINECS/ELINCS: 253-249-4, Reg-No.: 05-2114603735-5 GHS/CLP: Aquatic Chronic 4: H413
1 - < 2,5	Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts CAS: 722503-68-6, EINECS/ELINCS: 682-816-2 GHS/CLP: Skin Sens. 1: H317 - 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
<0,1	Phenol, dodecyl-, branched CAS: 121158-58-5, EINECS/ELINCS: 310-154-3, EU-INDEX: 604-092-00-9 GHS/CLP: Skin Corr. 1C: H314 - Aquatic Chronic 1: H410 - Repr. 1B: H360F - Aquatic Acute 1: H400 - Eye Dam. 1: H318, M-Factor (acute): 10

### 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

<b>General information</b>	Take off contaminated clothing and wash before reuse.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	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.
<b>Ingestion</b>	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

<b>Suitable extinguishing media</b>	foam, dry powder, water spray jet, carbon dioxide
<b>Extinguishing media that must not be used</b>	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).

##### 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 with 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 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.

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

**SECTION 8: Exposure controls / personal protection**

**8.1 Control parameters**

**Ingredients with occupational exposure limits to be monitored (GB)**

not applicable

**DNEL**

Substance
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts, CAS: 68784-31-6
Industrial, dermal, Acute - systemic effects, 100 mg/kg bw/d
Industrial, dermal, Long-term - systemic effects, 10,42 mg/kg bw/d
Industrial, inhalative, Acute - systemic effects, 496,4 mg/m³
Industrial, inhalative, Long-term - systemic effects, 2,93 mg/m³
general population, oral, Acute - systemic effects, 29 mg/kg bw/d
general population, oral, Long-term - systemic effects, 0,21 mg/kg bw/d
general population, dermal, Acute - systemic effects, 50 mg/kg bw/d
general population, dermal, Long-term - systemic effects, 2,1 mg/kg bw/d
general population, inhalative, Acute - systemic effects, 198,6 mg/m³
general population, inhalative, Acute - systemic effects, 11,75 mg/m³

**PNEC**

Substance
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

**8.2 Exposure controls**

<b>Additional advice on system design</b>	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.
<b>Eye protection</b>	If there is a risk of splashing: safety glasses
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. > 0,11 mm; Nitrile rubber, >480 min (EN 374-1/-2/-3).
<b>Skin protection</b>	light protective clothing
<b>Other</b>	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.
<b>Respiratory protection</b>	Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, combination filter A-P1. (DIN EN 14387)
<b>Thermal hazards</b>	none
<b>Delimitation and monitoring of the environmental exposition</b>	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
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	no
Vapour pressure/gas pressure [kPa]	< 0,01 (20°C)
Density [g/ml]	0,858 (DIN 51757) (15 °C / 59,0 °F)
Bulk density [kg/m <sup>3</sup> ]	not applicable
Solubility in water	immiscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	No information available.
Kinematic viscosity	> 20,5 mm <sup>2</sup> /s (40° C) ca. 13,5 - 15 mm <sup>2</sup> /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.

### 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 occur:  
Hydrogen sulfide (H<sub>2</sub>S).

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute oral toxicity**

Product
oral, Based on the available information, the classification criteria are not fulfilled.
Substance
Phenol, dodecyl-, branched, CAS: 121158-58-5
LD50, oral, Rat, 2100 mg/kg bw (OECD 401)
Bis(nonylphenyl)amine, CAS: 36878-20-3
LD50, oral, Rat, >5000 mg/kg (IUCRID)
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
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased**, CAS: 68784-26-9
LD50, oral, Rat, >5000 mg/kg bw (OECD 401)

**Acute dermal toxicity**

Product
dermal, Based on the available information, the classification criteria are not fulfilled.
Substance
Phenol, dodecyl-, branched, CAS: 121158-58-5
LD50, dermal, Rabbit, ca. 15000 mg/kg bw (OECD 402)
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
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased**, CAS: 68784-26-9
LD50, dermal, Rabbit, >4000 mg/kg bw (OECD 402)

**Acute inhalational toxicity**

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

**Serious eye damage/irritation**

Toxicological data of complete product are not available.  
Irritant  
Calculation method

**Skin corrosion/irritation**

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

**Respiratory or skin sensitisation**

May cause an allergic skin reaction.  
Calculation method

**Specific target organ toxicity — single exposure**

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

**Specific target organ toxicity — repeated exposure**

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

Substance
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

**Mutagenicity**

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

**Reproduction toxicity**

No classification.  
Calculation method



**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.  
 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.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
Phenol, dodecyl-, branched, CAS: 121158-58-5
EC50, (21d), Daphnia magna, 0,008 mg/L (OECD 211)
EC50, (48h), Daphnia magna, 0,037 mg/L (OECD 202)
EC50, (72h), Desmodesmus subspicatus, 0,15 mg/L (OECD 201)
EL50, (96h), Pimephales promelas, 40 mg/L (OECD 203)
Bis(nonylphenyl)amine, CAS: 36878-20-3
LC50, (96h), Crustacea, 18,9 - 39,2 mg/l
LC50, (96h), fish, >1000 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, (48h), Invertebrates, 75 mg/L
EL50, (72h), Algae, 240 - 410 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
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased**, CAS: 68784-26-9
LC50, (96h), Pimephales promelas, >1000 mg/l (OECD 203)
EC50, (48h), Daphnia magna, >1000 mg/l (OECD 202)
ErC50, (96h), Pseudokirchneriella subcapitata, >500 mg/l (OECD 201)

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

### 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

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

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

not applicable

### 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).

- **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

not applicable

## SECTION 16: Other information

### 16.1 Hazard statements (SECTION 3)

H400 Very toxic to aquatic life.  
H314 Causes severe skin burns and eye damage.  
H360F May damage fertility.  
H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.  
H304 May be fatal if swallowed and enters airways.  
H413 May cause long lasting harmful effects to aquatic life.

### 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

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)  
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)  
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

#### Modified position

none

**Safety Data Sheet REACH(UK) (GB)**  
**febi 32936 Engine Oil 5W - 40**



**Ferdinand Bilstein GmbH + Co. KG**

Date printed 26.03.2021, Revision 07.01.2021

Version 10. Supersedes version: 09

Page 13 / 13