# ebi bilstein

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Version 12.0. Supersedes version: 11.0

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

### 1.1 Product identifier

Engine Oil 20W - 50

Article number: 32921, 32922, 32923, 32924, 38408

UFI: 9E5X-P2NX-3004-P36S

### 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]

Skin Sens. 1: H317 May cause an allergic skin reaction.

2.2 Label elements

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

Hazard pictograms

Signal word WARNING

Contains: Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated

**Hazard statements** H317 May cause an allergic skin reaction.

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.

P333+P313 If skin irritation or rash occurs: Get medical advice / attention.

P501 Dispose of contents/container to approved disposal company or municipal collection

point.

#### 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 hazards**Does not contain any PBT or vPvB substances.

Contains no ingredients with endocrine-disrupting properties.

Other hazards none



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# **SECTION 3: Composition / Information on ingredients**

### 3.1 Substances

not applicable

#### 3.2 Mixtures

#### The product is a mixture.

Range [%]	Substance
1 - < 2.5	Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated
	CAS: -, EINECS/ELINCS: 953-650-0
	GHS/CLP: Skin Sens. 1B: H317 - Repr. 2: H361d
	SCL [%]: 17.15 - 100: Repr. 2: H361
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 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.

Carbon monoxide (CO) 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. 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 oxidizing agents.

Keep container tightly closed.

Keep container in a well-ventilated place.

### 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)

not relevant

# **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		
Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated, CAS: -		
There are no DNEL values established for the substance.		

# **PNEC**

Substance	
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts, CAS: 6	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	
Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated, CAS: -	
There are no PNEC values established for the substance.	

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#### 8.2 Exposure controls

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.

**Eve protection** If there is a risk of splashing:

safety glasses

**Hand protection** 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).

**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

Coloryellow-brownOdorcharacteristicOdour thresholdnot relevantpH-valuenot applicablepH-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/cm³]** 0.885 (DIN 51757) (15 °C / 59,0 °F)

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 mm<sup>2</sup>/s (40°C)

17 - 21 mm<sup>2</sup>/S (100°C)

Relative vapour density

Evaporation speed

No information available.

No information available.

Melting point [°C]

Auto-ignition temperature [°C]

Decomposition temperature [°C]

No information available.

No information available.

No information available.

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### 9.2 Other information

Drop point: -27°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 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:  $> 65^{\circ}\text{C}$ 

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

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

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.

Serious eye damage/irritation Non-irritant.

Expert judgement

**Skin corrosion/irritation**Based on the available information, the classification criteria are not fulfilled.

**Respiratory or skin sensitisation** Toxicological data of complete product are not available.

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.

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

MutagenicityBased on the available information, the classification criteria are not fulfilled.Reproduction toxicityBased on the available information, the classification criteria are not fulfilled.CarcinogenicityBased on the available information, the classification criteria are not fulfilled.

Aspiration hazard 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 Contains no ingredients with endocrine-disrupting properties.

Other information none



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# **SECTION 12: Ecological information**

# 12.1 Toxicity

Product			
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 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 not determined

compartments

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.

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



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# **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

**IMDG** 

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

**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

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

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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

#### 14.5 Environmental hazards

Transport by land according to

ADR/RID

no

Inland navigation (ADN)

no

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 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/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 (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)

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

not applicable

#### **SECTION 16: Other information**

# 16.1 Hazard statements (SECTION 3)

H361d Suspected of damaging the unborn child. H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

H318 Causes serious eye damage.

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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 Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)

Modified position SECTION 11 been added: Contains no ingredients with endocrine-disrupting properties.

SECTION 12 been added: Contains no ingredients with endocrine-disrupting properties.