ebi bilstein

Ferdinand Bilstein GmbH + Co. KG

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

1.1 Product identifier

febi 173443 Engine Oil SAE 5W-30 HC C2 Article number: 173443, 173444, 173445

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

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]

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

Hazard statements H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local/national regulation.

UFI: TVAG-YGFX-3003-A82Q

2.3 Other hazards

Physico-chemical hazards No particular hazards known.

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 hazardsDoes not contain any PBT or vPvB substances.

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

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	Bis(nonylphenyl)amine
	CAS: 36878-20-3, EINECS/ELINCS: 253-249-4, Reg-No.: 01-2119488911-28-XXXX
	GHS/CLP: Aquatic Chronic 4: H413
1 - < 2,5	Calcium branched alkyl phenate sulphide (overbased)
	CAS: -, EINECS/ELINCS: -, EU-INDEX: -
	GHS/CLP: Aquatic Chronic 4: H413
< 0,1	Phenol, dodecyl-, branched
	CAS: 121158-58-5, EINECS/ELINCS: 310-154-3, EU-INDEX: 604-092-00-9, Reg-No.: 01-2119513207-49-XXXX
	GHS/CLP: Skin Corr. 1C: H314 - Repr. 1B: H360 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410 - Eye Dam. 1:
	H318,
	M_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 and R-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Change soaked clothing.

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.

Rinse out mouth and give plenty of water to drink.

Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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.

Carbon monoxide (CO) Sulphur oxides (SOx). Nitrogen oxides (NOx). Hydrogen sulfide ((H2S).

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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.

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

Wash hands before breaks and after work.

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

Use barrier skin cream.

Take off contaminated clothing and wash before reuse.

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.

Do not store together with food and animal food/diet.

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

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

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

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

DNEL

Substance Phenol, dodecyl-, branched, CAS: 121158-58-5 Industrial, inhalative (mist), Acute - systemic effects: 44,18 mg/m³. Industrial, dermal, Long-term - systemic effects: 0,25 mg/kg bw. Industrial, dermal, Acute - systemic effects: 166 mg/kg bw. general population, inhalative (mist), Long-term - systemic effects: 0,79 mg/m³. general population, inhalative (mist), Acute - systemic effects: 13,26 mg/m³. general population, dermal, Long-term - systemic effects: 0,075 mg/kg bw. general population, dermal, Acute - systemic effects: 50 mg/kg bw. general population, oral, Long-term - systemic effects: 0,075 mg/kg bw. Bis(nonylphenyl)amine, CAS: 36878-20-3 Industrial, dermal, Long-term - systemic effects: 5 mg/kg bw/day. general population, oral, Long-term - systemic effects: 0,25 mg/kg bw/day. general population, dermal, Long-term - systemic effects: 2,5 mg/kg bw/day. 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.

PNEC

Cubstance	
Phenol, dodecyl-, branched, CAS: 121158-58-5	
oral (food), 4 mg/kg.	
freshwater, 0,000074 mg/l.	
sediment (freshwater), 0,226 mg/kg.	
sediment (seawater), 0,0226 mg/kg.	
seawater, 0,0000074 mg/l.	
soil, 0,188 mg/kg.	
Bis(nonylphenyl)amine, CAS: 36878-20-3	
soil, 263000 mg/kg.	
sediment (seawater), 13200 mg/kg.	
sediment (freshwater), 132000 mg/kg.	
sewage treatment plants (STP), 1 mg/l.	
seawater, 0,01 mg/l.	
freshwater, 0,1 mg/l.	
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7	
oral (food), 9,33 mg/kg.	



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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

> 0,11 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 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

Form liquid

Coloryellow-brownOdorcharacteristic

Odour threshold No information available.

pH-value not applicable

pH-value [1%]

Boiling point [°C]

Flash point [°C]

Flammability (solid, gas) [°C]

No information available.

> 200 (ISO 2592)

not applicable

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

Oxidising properties no

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

Density [g/ml] ca. 0,85 (DIN 51757) (15 °C / 59,0 °F)

Bulk density [kg/m³]not applicableSolubility in watervirtually insoluble

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

Viscosity ca. 10,2 mm²/s (100°C) (DIN 51562/T1)

> 20,5 mm²/s (40°C)

Relative vapour density determined

n air

No information available

Evaporation speed No information available.

Melting point [°C] < -30 (DIN ISO 3016)

Autoignition temperature [°C] No information available.

Decomposition temperature [°C] No information available.

9.2 Other information

No information available.



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SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

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 acids.

Strong heating, because the thermal decomposition starts from > 100°C.

10.5 Incompatible materials

Oxidizing agent

Acids

Strong basic compounds

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 toxicological effects

Acute toxicity

Substance	
Phenol, dodecyl-, branched, CAS: 121158-58-5	
LD50, dermal, Rabbit: 15000 mg/kg bw.	
LD50, oral, Rat: 2100 mg/kg bw.	
Bis(nonylphenyl)amine, CAS: 36878-20-3	
LD50, dermal, Rat: >2000 mg/kg (OECD 402).	
LD50, oral, Rat: >5000 mg/kg (OECD 401).	
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
Skin corrosion/irritation
Respiratory or skin sensitisation
Specific target organ toxicity —
single exposure
Specific target organ toxicity —
repeated exposure
Mutagenicity
Reproduction toxicity
Carcinogenicity
Aspiration hazard
General remarks

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.

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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

Substance		
Phenol, dodecyl-, branched, CAS: 121158-58-5		
EC50, (72h), Scenedesmus subspicatus: 0,15 mg/l.		
EC50, (21d), Daphnia magna: 0,008 mg/l.		
EC50, (48h), Daphnia magna: 0,037 mg/l.		
EL50, (96h), Pimephales promelas: 40 mg/l.		
Bis(nonylphenyl)amine, CAS: 36878-20-3		
EC50, (48h), Daphnia magna: >100 mg/l (OECD 202).		
LC0, (96h), Brachidanio rerio: 58 mg/l (OECD 203).		
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.		



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12.2 Persistence and degradability

Behaviour in environment

not determined

compartments

Behaviour in sewage plant not determined

Biological degradability

The product is not readily biodegradable.

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 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.

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) 150110* packaging containing residues of or contaminated by hazardous substances

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

IMDG

not applicable

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

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



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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) 2015/830; (EU) 2016/131;

(EU) 517/2014

TRANSPORT-REGULATIONS ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2020)

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

- Observe employment restrictions

for people

no

- VOC (2010/75/CE) not applicable

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

H360 May damage fertility or the unborn child. H314 Causes severe skin burns and eye damage.

H413 May cause long lasting harmful effects to aquatic life.

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

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

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



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16.3 Other information

Classification procedure Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

Modified position none