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



Ferdinand Bilstein GmbH + Co. KG

Date printed 21.02.2025, Revision 20.02.2025

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

1.1 Product identifier

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

No classification.

2.2 Label elements

The product does not require a hazard in accordance to OSHA Standard 29 CFR 1910.1200

(HCS 2024)

Hazard pictogramsNoneSignal wordNoneHazard statementsNonePrecautionary statementsNone

2.3 Other hazards

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 hazardsContains no ingredients with endocrine-disrupting properties.

Contains no ingredients with endocrine-disrupting properties (≥ 0,1%).

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

This product is classified as non-hazardous in accordance to OSHA Standard 29 CFR

1910.1200.

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				
15 - <30	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based				
	CAS: 72623-87-1				
5 - <15	Hydrocarbon Oil Liquid				
1 - <2,5	Calcium branched alkyl phenate sulphide (overbased)				
	CAS: -				

Comment on component parts For full text of H-statements and R-phrases: see SECTION 16.

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

IECSC Inventory.

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 Fire extinguishing method of surrounding areas must be considered.

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).

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.

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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.

Ensure adequate ventilation.

Use personal protective equipment (protective gloves, safety glasses, protective clothing).

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

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 (US)

Substance

Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract)

CAS: 64742-54-7

Long-term exposure: 5 mg/m³, OSHA, oil mist

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

CAS: 72623-87-1

Long-term exposure: 5 mg/m³, ACGIH, TWA, Oil mist

DNFI

Substance

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

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, oral, Long-term - systemic effects, 740 µg/kg bw/day

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, oral, Long-term - systemic effects, 0.74mg/kg bw/day

PNEC

Substance

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

oral (food), 9,33 mg/kg

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1

oral (food), 9.33 mg/kg food

8.2 Exposure controls

Additional advice on system design

Ensure adequate ventilation on workstation.

General 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 Protective clothing (EN 340)

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-P2.

Thermal hazards No information available.

Delimitation and monitoring of the

environmental exposition

Comply with applicable environmental regulations limiting discharge to air, water and soil.

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SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid **Form** Liquid Color light brown Odor characteristic

Odor threshold No information available.

pH-value Not applicable

pH-value [1%] No information available. Boiling point or initial boiling point No information available.

and boiling range [°C]

>200 (ISO 2592)

Flash point [°C] **Flammability** not flammable

Lower explosion limit No information available. No information available. **Upper explosion limit**

Oxidizing properties No

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

ca. 0,853 (DIN 51757) (15 °C / 59,0 °F) Density [g/cm³]

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 No information available.

(log value)

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

>20,5 mm²/s (40°C)

Relative vapour density No information available. Melting point [°C] No information available. Auto-ignition temperature [°C] No information available. Decomposition temperature [°C] No information available. Particle characteristics No information available.

9.2 Other information

Pour point: ca. -30°C

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

10.5 Incompatible materials

Oxidizing agent

Strong basic compounds

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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 oral toxicity

Based on available data, the classification criteria are not met.

Product

ATE-mix, oral, >2000 mg/kg bw

Substance

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

LD50, oral, Rat, > 5000 mg/kg bw

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1

LD50, oral, Rat, > 5000 mg/kg bw

Hydrocarbon Oil Liquid

LD50, oral, Rat, > 5000 mg/kg

Acute dermal toxicity

Based on available data, the classification criteria are not met.

Product

ATE-mix, dermal, >2000 mg/kg bw

Substance

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

LD50, dermal, Rabbit, > 5000 mg/kg bw

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1

LD50, dermal, Rabbit, > 5000 mg/kg bw

Hydrocarbon Oil Liquid

LD50, dermal, Rabbit, > 5000 mg/kg

Acute inhalational toxicity

Based on available data, the classification criteria are not met.

Product

ATE-mix, inhalativ (vapor), >20 mg/L

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

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1

LC50, inhalative, Rat, > 5 mg/L, 4h

Hydrocarbon Oil Liquid

LC50, inhalativ (mist), Rat, > 5 mg/l (4h)

Serious eye damage/irritation

Based on the information available, the classification criteria have not been fulfilled.

Substance

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1

Eye, non-irritating

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

Substance

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1

dermal, non-irritating

Respiratory or skin sensitisation

Based on the information available, the classification criteria have not been fulfilled.

Substance

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1

dermal, non-sensitizing

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Specific target organ toxicity — single exposure

Based on the information available, the classification criteria have not been fulfilled.

Specific target organ toxicity — repeated exposure

Based on the information available, the classification criteria have not been fulfilled.

Substance

Substance

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

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

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

NOAEC, inhalative, Rat, 980 mg/m³ air

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

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1

NOAEC, inhalative, Rat, 980 mg/m³ air LOAEL, oral, Rat, 125 mg/kg bw/day

Mutagenicity

Based on the information available, the classification criteria have not been fulfilled.

Substance

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1

in vitro, negativ

Reproduction toxicity

Based on the information available, the classification criteria have not been fulfilled.

- Fertility

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

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1

NOAEL, oral, Rat, 1000 mg/kg bw/day

- **Development** No information available.

CarcinogenicityBased on the information available, the classification criteria have not been fulfilled. **Aspiration hazard**Based on the information available, the classification criteria have not been fulfilled.

General remarks

Toxicological data of complete product are not available.

SECTION 12: Ecological information

12.1 Toxicity

Ecological data of complete product are not available.

Based on available data, the classification criteria are not met.

Substance

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

EC50, (48h), > 10000 mg/l (Gammarus pulex), OECD 202

EC50, (72h), Algae, > 100 mg/l

NOEC, (72h), Pseudokirchneriella subcapitata, ≥ 100 mg/l, OECD 201

NOEC, (21d), Daphnia magna, 10 mg/l, OECD 211

LL50, (96h), Fish, > 100 mg/l, OECD 203

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1

EL50, (48h), Invertebrates, > 10000 mg/L

LL50, (4d), Fish, > 100 mg/L

Hydrocarbon Oil Liquid

LC50, Fish, >100 mg/L

EC50, Daphnia magna, >10000 mg/L

EC50, (72h), Algae, >100 mg/L

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12.2 Persistence and degradability

No information available.

Behaviour in environment

compartments

Behaviour in sewage plant

Biological degradability

The product is not readily biodegradable.

Substance

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

(28d), 31 %, OECD 301 F, The product is not readily biodegradable.

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1

(28d), 1 - 4 %, OECD 301 B, The product is not readily biodegradable.

Hydrocarbon Oil Liquid

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 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties (≥ 0,1%).

12.7 Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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!

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

RCRA Hazard Class (40CFR 261)

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities.

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SECTION 14: Transport

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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

DOT Road Shipment Information (49 Not applicable

CFR)

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 NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

DOT Road Shipment Information (49 Not applicable

CFR)

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

DOT Road Shipment Information (49 Not applicable

CFR)

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

DOT Road Shipment Information (49 Not applicable

Nο

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14.5 Environmental hazards

Transport by land according to

ADR/RID

Inland navigation (ADN) No

Marine transport in accordance with

IMDG

Air transport in accordance with IATA No

DOT Road Shipment Information (49 No

CFR)

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

US Regulations

National regulations 29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA,

TSCA, California - Prop. 65

- SARA, 302 Not applicable
- SARA, 311 Not applicable
- SARA, 313 Not applicable

- CA Proposition 65 No chemical substances in this material are named on the California P65 list.

- TSCA All chemical substances in this material are included on or exempted from listing on the TSCA

Inventory.

FDA No information available.
 American Conference of No information available.

Governmental Industrial Hygienists -

ACGIH

International Agency for Research on No information available.

Cancer IARC

National Toxicology Program - NTP No information available.

HAP-VOC Not applicable

Transport-regulations DOT-Classification, ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025)

15.2 Chemical safety assessment

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

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SECTION 16: Other information

16.1 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists;

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;

CAS = Chemical Abstracts Service;

CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;

CFR = Code of Federal Regulations;

CPR = Controlled Products Regulations;

DMEL = Derived Minimum Effect Level;

DNEL = Derived No Effect Level;

DOT = Department of Transportation;

EC50 = Median effective concentration;

EPA = Environmental Protection Agency;

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;

IARC = International Agency of Research on Cancer;

IATA = International Air Transport Association;

TSCA = Toxic Substance Control Act;

HMIS = Hazardous Materials Identification System;

NFPA = National Fire Protection Association;

NIOSH = National Institute for Occupational Safety and Health;

OSHA = Occupational Safety and Health Administration;

LC50 = Lethal concentration, 50%;

LD50 = Median lethal dose, 50%;

MARPOL = International Convention for the Prevention of Marine Pollution from Ships;

PBT = Persistent, Bioaccumulative and Toxic substance;

PNEC = Predicted No-Effect Concentration;

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals;

SARA = Superfund Amendments and Reauthorization Act;

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;

16.2 Ratings

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NFPA Ratings



TOP, FLAMMABILITY: 0 - Minimal Hazard LEFT, HEALTH: 1 - Slight Hazard RIGHT, REACTIVITY: 0 - Minimal Hazard BOTTOM, SPECIAL NOTICE: -

HMIS Ratings



- 1 Slight Hazard
- 1 Slight Hazard
- 0 Minimal Hazard
- X Personal protection rating to be supplied by user depending on use conditions

PERSONAL PROTECTION:

- A Safety Glasses
- B Safety Glasses and Gloves
- C Safety Glasses, Gloves and Protection Apron
- D Face Shield, Gloves and Protection Apron
- E Safety Glasses, Gloves and Dust Respirator
- F Safety Glasses, Gloves, Protection Apron and Dust Respirator
- G Safety Glasses, Gloves and Vapor Respirator.
- H Splash Goggles, Gloves, Protection Apron and Vapor Respirator.
- I Safety Glasses, Gloves, Dust Respirator and Vapor Respirator.
- J Splash Goggles, Gloves, Protection Apron, Dust Respirator and Vapor Respirator.
- K Airline Mask or Hood, Gloves, Full Suit and Boots.
- X Personal protection rating to be supplied by user depending on use conditions

Modified position

1.3, 1.4, 2.1, 2.2, 2.3, 3.2, 8.1, 9.1, 11.1, 11.2, 12.1, 12.2, 12.3, 12.4, 12.5, 12.6, 12.7, 15.1, 16.2, 16.3