

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Engine oil SAE 5W-30 RN0720
Article number: 1004933, 1004934, 1004935, 1004936, 1004937, 1004938

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 Call NHS 111 or a doctor

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 pictograms none

Signal word none

Hazard statements none

Precautionary statements none

Special labelling EUH210 Safety data sheet available on request.

Contains: C14-16-18 Alkyl phenol. EUH208 May produce an allergic reaction.

2.3 Other hazards

Physico-chemical hazards No particular hazards known.

Human health dangers The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Environmental hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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 |
|-----------|---|
| 20 - <50 | 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 | Bis(nonylphenyl)amine CAS: 36878-20-3, EINECS/ELINCS: 253-249-4, Reg-No.: 01-2119488911-28-XXXX GHS/CLP: Aquatic Chronic 4: H413 |
| 0,1 - <1 | C14-16-18 Alkyl phenol CAS: 1190625-94-5, EINECS/ELINCS: 931-468-2, Reg-No.: 01-2119498288-19-XXXX GHS/CLP: Skin Sens. 1B: H317 - STOT RE 2: H373 |

Comment on component parts

For full text of H-statements and R-phrases: see SECTION 16.
Contains less than 3 % w/w DMSO-extract (only for mineral oils).

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 plenty of 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

Allergic reactions

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

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
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. oil 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

No special measures necessary if used correctly.
Use only in well-ventilated areas.
Use solvent-resistant equipment.

Do not eat, drink or smoke when using this product.
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
Use barrier skin cream.
Cloths contaminated with product should not be kept in trouser pockets.
Take off contaminated clothing and wash before reuse.
Contaminated work clothing should not be allowed out of the workplace.

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



SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (UK)

not relevant

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

DNEL

| |
|---|
| Substance |
| Bis(nonylphenyl)amine, CAS: 36878-20-3 |
| Industrial, dermal, Long-term - systemic effects, 5 mg/kg bw/day |
| general population, dermal, Long-term - systemic effects, 2,5 mg/kg bw/day |
| general population, oral, Long-term - systemic effects, 0,25 mg/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/m ³ |
| Industrial, inhalative, Long-term - local effects, 5.58 mg/m ³ |
| Industrial, dermal, Long-term - systemic effects, 970 µg/kg bw/day |
| general population, oral, Long-term - systemic effects, 0.74mg/kg bw/day |
| C14-16-18 Alkyl phenol, CAS: 1190625-94-5 |
| Industrial, inhalative, Long-term - systemic effects, 1,17 mg/m ³ |
| Industrial, dermal, Long-term - systemic effects, 300 µg/kg bw/d |

PNEC

| |
|---|
| Substance |
| Bis(nonylphenyl)amine, CAS: 36878-20-3 |
| freshwater, 412 µg/L |
| seawater, 41.2 µg/L |
| sediment (freshwater), 1 mg/kg sediment dw |
| sediment (seawater), 0.1 mg/kg sediment dw |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1 |
| oral (food), 9.33 mg/kg food |
| C14-16-18 Alkyl phenol, CAS: 1190625-94-5 |
| freshwater, 100 µg/l |
| seawater, 10 µg/l |
| sewage treatment plants (STP), 100 mg/l |
| sediment (freshwater), 4266,16 mg/kg dw |
| sediment (seawater), 426,62 mg/kg dw |
| soil, 852,58 mg/kg dw |
| oral (food), 3,3 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. > 0,4 mm: Nitrile rubber, >120 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. Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin. |
| Respiratory protection | not applicable |
| 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

| | |
|--|---------------------------|
| Physical state | liquid |
| Form | liquid |
| Color | brown |
| Odor | characteristic |
| Odour threshold | No information available. |
| pH-value | not applicable |
| pH-value [1%] | not applicable |
| Boiling point or initial boiling point and boiling range [°C] | No information available. |
| Flash point [°C] | 240 °C |
| Flammability | No information available. |
| Lower explosion limit | No information available. |
| Upper explosion limit | No information available. |
| Oxidising properties | no |
| Vapour pressure/gas pressure [kPa] | No information available. |
| Density [g/cm³] | 0,84 (15 °C / 59,0 °F) |
| Relative density | No information available. |
| Bulk density [kg/m³] | not applicable |
| Solubility in water [g/L] | miscible |
| Solubility other solvents | No information available. |
| Partition coefficient n-octanol/water (log value) | not applicable |
| Kinematic viscosity | 61,75 mm²/s, 40 °C |
| Relative vapour density | No information available. |
| Melting point [°C] | No information available. |
| Auto-ignition temperature [°C] | not applicable |
| Decomposition temperature [°C] | No information available. |
| Particle characteristics | not applicable |

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

10.4 Conditions to avoid

No special measures necessary.

10.5 Incompatible materials

Strong oxidizing agent.
Strong basic compounds
Strong acids.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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

| |
|--|
| Product |
| oral, Based on the available information, the classification criteria are not fulfilled. |
| Substance |
| Bis(nonylphenyl)amine, CAS: 36878-20-3 |
| 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 |
| C14-16-18 Alkyl phenol, CAS: 1190625-94-5 |
| LD50, oral, Rat, >2000 mg/kg bw |

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

| |
|--|
| Product |
| dermal, Based on the available information, the classification criteria are not fulfilled. |
| Substance |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1 |
| LD50, dermal, Rabbit, > 5000 mg/kg bw |
| C14-16-18 Alkyl phenol, CAS: 1190625-94-5 |
| LD50, dermal, Rat, >2000 mg/kg bw |

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

| |
|--|
| Product |
| inhalative, Based on the available information, the classification criteria are not fulfilled. |
| Substance |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1 |
| LC50, inhalative, Rat, > 5 mg/L, 4h |

Serious eye damage/irritation Based on the available information, the classification criteria are not fulfilled.
Non-irritant.
Classification was carried out based on substance-specific concentration limits.

| |
|---|
| Substance |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1 |
| Eye, non-irritating |
| C14-16-18 Alkyl phenol, CAS: 1190625-94-5 |
| Eye, non-irritating |

Skin corrosion/irritation No classification.
Calculation method

| |
|---|
| Substance |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1 |
| dermal, non-irritating |
| C14-16-18 Alkyl phenol, CAS: 1190625-94-5 |
| dermal, non-irritating |

Respiratory or skin sensitisation Non-sensitizing.
On basis of test data

| |
|---|
| Substance |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1 |
| dermal, non-sensitizing |



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| |
|---|
| C14-16-18 Alkyl phenol, CAS: 1190625-94-5 |
| dermal, non-sensitizing |

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 |
| Bis(nonylphenyl)amine, CAS: 36878-20-3 |
| NOEL, oral, Rat, 100 mg/kg bw/day |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1 |
| NOAEC, inhalative, Rat, 980 mg/m ³ air |
| LOAEL, oral, Rat, 125 mg/kg bw/day |
| C14-16-18 Alkyl phenol, CAS: 1190625-94-5 |
| NOAEL, oral, Rat, 100 mg/kg bw/day |

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

| |
|---|
| Substance |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1 |
| in vitro, negativ |

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

- Fertility

| |
|---|
| Substance |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1 |
| NOAEL, oral, Rat, 1000 mg/kg bw/day |
| C14-16-18 Alkyl phenol, CAS: 1190625-94-5 |
| NOAEL, oral, Rat, 225 mg/kg bw/day, no adverse effect observed |

- Development

| |
|--|
| Substance |
| C14-16-18 Alkyl phenol, CAS: 1190625-94-5 |
| NOAEL, oral, Rat, 225 mg/kg bw/day, no adverse effect observed |

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.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties — Does not contain a relevant substance that meets the classification criteria.

11.2.2 Other information — none

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SECTION 12: Ecological information

Product

12.1 Toxicity

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

No classification due to toxicological investigations.

Substance

Bis(nonylphenyl)amine, CAS: 36878-20-3

EC50, (48h), Invertebrates, 100 mg/L

EL50, (72h), Algae, 100 mg/L

NOELR, (21d), Invertebrates, 4.45 mg/L

NOELR, (33d), Fish, 10 mg/L

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

C14-16-18 Alkyl phenol, CAS: 1190625-94-5

LC50, (96h), Cyprinus carpio, >100 mg/l

EC50, (24h), Daphnia magna, >100 mg/l

EC50, (72h), Pseudokirchneriella subcapitata, >100 mg/l

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

NOELR, (24h), Daphnia magna, >100 mg/l

12.2 Persistence and degradability**Behaviour in environment compartments****Behaviour in sewage plant**

No information available.

Biological degradability

Substance

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.

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

Does not contain a relevant substance that meets the classification criteria.

12.7 Other adverse effects

None known.



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

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

Waste no. (recommended)

130206*

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 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

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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 IMDG 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

SECTION 15: Regulatory information

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

EEC-REGULATIONS 2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 2024/573; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707

- **Comment on component parts** Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

- **Annex XIV (REACH)** According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances ≥ 0.1% that are subject to authorisation.

- **Annex XVII (REACH)** According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1% of substances with the following restrictions. 75

TRANSPORT-REGULATIONS ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025, 66th Edition)

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

- **Observe employment restrictions for people** Observe employment restrictions for young people.

- **VOC (2010/75/CE)** not relevant

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)

- H317 May cause an allergic skin reaction.
- H373 May cause damage to organs through prolonged or repeated exposure.
- 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 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

Modified position none