

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

**1.1 Product identifier**

**Engine Oil 5W - 40 C3**  
**Article number: 195457, 195458, 195459, 195460, 195461, 195462, 195463**

**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](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 (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: Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts. EUH208 May produce an allergic reaction.

**2.3 Other hazards**

**Environmental hazards** Does not contain any PBT or vPvB substances.  
Contains no ingredients with endocrine-disrupting properties.

**Other hazards** No particular hazards known.

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

**3.1 Substances**

not applicable

### 3.2 Mixtures

The product is a mixture.

| Range [%] | Substance                                                                 |
|-----------|---------------------------------------------------------------------------|
| < 1       | Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts            |
|           | CAS: 70024-69-0, EINECS/ELINCS: 274-263-7, Reg-No.: 01-2119492616-28-XXXX |
|           | GHS/CLP: Skin Sens. 1B: H317                                              |
|           | SCL [%]: 10 - 100: Skin Sens. 1B: H317                                    |

Comment on component parts

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.<br>In the event of symptoms seek medical treatment.                                                                                                   |
| Skin contact        | When in contact with the skin, clean with soap and water.<br>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.<br>If eye irritation persists: Get medical advice/attention. |
| Ingestion           | Do not induce vomiting.<br>Seek medical advice immediately.<br>Rinse out mouth and give plenty of water to drink.                                                                 |

### 4.2 Most important symptoms and effects, both acute and delayed

Headache

### 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)

### 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

Some risk of slipping due to 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.  
Do not discharge into the subsoil/soil.

## 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

Avoid formation of aerosols.  
Use only in well-ventilated areas.  
The product is combustible.  
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.  
Take off contaminated clothing and wash before reuse.  
Contaminated work clothing should not be allowed out of the workplace.  
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 food and animal food/diet.  
Keep container in a well-ventilated place.  
Keep container tightly closed.

## 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                                                                           |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, CAS: 70024-69-0     |
| Industrial, inhalative, Long-term - systemic effects, 11,75 mg/m <sup>3</sup>       |
| Industrial, dermal, Long-term - systemic effects, 3,33 mg/kg bw/day                 |
| Industrial, dermal, Long-term - local effects, 1,03 mg/cm <sup>2</sup>              |
| general population, inhalative, Long-term - systemic effects, 2,9 mg/m <sup>3</sup> |
| general population, dermal, Long-term - systemic effects, 1,667 mg/kg bw/day        |
| general population, dermal, Long-term - local effects, 0,513 mg/cm <sup>2</sup>     |
| general population, oral, Long-term - systemic effects, 0,833 mg/kg bw/day          |

**PNEC**

|                                                                                 |
|---------------------------------------------------------------------------------|
| Substance                                                                       |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, CAS: 70024-69-0 |
| freshwater, 1 mg/l                                                              |
| seawater, 1 mg/l                                                                |
| sewage treatment plants (STP), 1000 mg/l                                        |
| oral (food), 16.667 mg/kg food                                                  |

**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.  
In full contact:  
> 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**

No special measures necessary.

**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%]                                                 | No information available.                    |
| Boiling point or initial boiling point and boiling range [°C] | not applicable                               |
| Flash point [°C]                                              | 232 (EN ISO 2592)                            |
| Flammability                                                  | No information available.                    |
| Lower explosion limit                                         | 0,6 Vol.-%                                   |
| Upper explosion limit                                         | 6,5 Vol.-%                                   |
| Oxidising properties                                          | no                                           |
| Vapour pressure/gas pressure [kPa]                            | No information available.                    |
| Density [g/cm <sup>3</sup> ]                                  | 0,849 (15 °C / 59,0 °F)                      |
| Relative density                                              | not determined                               |
| Bulk density [kg/m <sup>3</sup> ]                             | not applicable                               |
| Solubility in water                                           | immiscible                                   |
| Solubility other solvents                                     | No information available.                    |
| Partition coefficient n-octanol/water (log value)             | No information available.                    |
| Kinematic viscosity                                           | 80,1 mm <sup>2</sup> /s (40°C) (DIN 53211/4) |
| 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                                      | No information available.                    |

### 9.2 Other information

Pour point: -39°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

No hazardous reactions known.

### 10.4 Conditions to avoid

Strong heating.

### **10.5 Incompatible materials**

Oxidizing agent  
Strong basic compounds  
Strong acids.

### **10.6 Hazardous decomposition products**

No hazardous decomposition products known.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

|                                                                                 |
|---------------------------------------------------------------------------------|
| Substance                                                                       |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, CAS: 70024-69-0 |
| LD50, oral, Rat, 10.000 - 20.000 mg/kg                                          |

**Acute dermal toxicity**

|                                                                                 |
|---------------------------------------------------------------------------------|
| Substance                                                                       |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, CAS: 70024-69-0 |
| LD50, dermal, Rabbit, > 5.000 mg/kg (OECD 402)                                  |

**Acute inhalational toxicity**

|                                                                                 |
|---------------------------------------------------------------------------------|
| Substance                                                                       |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, CAS: 70024-69-0 |
| LC50, inhalative, Rat, > 1,9 mg/l                                               |

**Serious eye damage/irritation** Based on the available information, the classification criteria are not fulfilled.

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

**Respiratory or skin sensitisation** Based on the available information, the classification criteria are not fulfilled.

**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                                                                            |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, CAS: 70024-69-0      |
| NOAEL, oral, Rat, 500 mg/kg bw/day, OECD 407, adverse effect observed                |
| NOAEL, dermal, Rat, 1000 mg/kg bw/day, no adverse effect observed                    |
| NOAEC, inhalative, Rat, 881,58 mg/m <sup>3</sup> , OECD 412, adverse effect observed |

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

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

**- Fertility**

|                                                                                 |
|---------------------------------------------------------------------------------|
| Substance                                                                       |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, CAS: 70024-69-0 |
| NOAEL, oral, Rat, 500 mg/kg bw/day, OECD 415, no adverse effect observed        |

**- Development**

|                                                                                 |
|---------------------------------------------------------------------------------|
| Substance                                                                       |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, CAS: 70024-69-0 |
| NOAEL, oral, Rat, 500 mg/kg bw/day, OECD 415, 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.  
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**

|                                               |                                                                                               |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>11.2.1 Endocrine disrupting properties</b> | Does contain a relevant substance that meets the classification criteria.<br>CAS: 121158-58-5 |
| <b>11.2.2 Other information</b>               | none                                                                                          |

**SECTION 12: Ecological information**

**12.1 Toxicity**

|                                                                                 |
|---------------------------------------------------------------------------------|
| Substance                                                                       |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, CAS: 70024-69-0 |
| LC50, (96h), Fish, > 10.000 mg/l (OECD 203)                                     |
| EC50, (48h), Daphnia magna, > 1000 mg/l                                         |
| EC50, (72h), Pseudokirchneriella subcapitata, > 1000 mg/l                       |

**12.2 Persistence and degradability**

|                                              |                |
|----------------------------------------------|----------------|
| <b>Behaviour in environment compartments</b> | not determined |
| <b>Behaviour in sewage plant</b>             | not determined |
| <b>Biological degradability</b>              | 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**

Does contain a relevant substance that meets the classification criteria.  
CAS: 121158-58-5

**12.7 Other adverse effects**

Ecological data of complete product are not available.  
Do not discharge product unmonitored into the environment or into the drainage.



**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 authorities if necessary.

**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)**

150102  
150104  
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) 517/2014; (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 $\geq 0.1\%$ that are subject to authorisation.                                                                                                          |
| - Annex XVII (REACH)                         | According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains $\geq 0.1\%$ of substances with the following restrictions. 75<br>According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is not subject to any restrictions. |
| TRANSPORT-REGULATIONS                        | ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)                                                                                                                                                                                                         |
| NATIONAL REGULATIONS (UK):                   | EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.                                                                                                                                                                 |
| - Observe employment restrictions for people | no                                                                                                                                                                                                                                                               |
| - 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.

**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

Modified position

none