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1.1	Product identifier	
		febi 32936 Engine Oil 5W - 40
		Article number: 32936, 32937, 32938, 32939, 32940
.2	Relevant identified uses of the	ne substance or mixture and uses advised against
.2.1	Relevant uses	
		Engine oil
.2.2	2 Uses advised against	
		For all uses not specified in SECTION 1.2.1
.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
.4	Emergency telephone number	er
	Advisory body	+49 (0)89-19240 (24h) (english)
SEC	TION 2: Hazards identification	
2.1	Classification of the substan	ce or mixture
		Eye Irrit. 2: H319 Causes serious eye irritation.
2.2	Label elements	
		The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP
	Hazard pictograms	\wedge
	Signal word	WARNING
	Hazard statements	H319 Causes serious eye irritation.
	Precautionary statements	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children.
		P280 Wear eye protection / face protection.
		P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		P337+P313 If eye irritation persists: Get medical advice / attention.
.3	Other hazards	
	Human health dangers	Frequent persistent contact with the skin can cause skin irritation.
	Environmental hazards	If swallowed or in the event of vomiting, risk of product entering the lungs. Does not contain any PBT or vPvB substances.
	Other hazards	none



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SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
45 - < 60	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	Polyolefine polyamine succinimid, polyol
	CAS: 147880-09-9, EINECS/ELINCS: Polymer
	GHS/CLP: Aquatic Chronic 4: H413
1 - < 5	Phenol, 2,2'-polythiobis[4-C8-30-alkyl derivs., calcium salts, overbased
	CAS: 90480-91-4, EINECS/ELINCS: 291-829-9, Reg-No.: 01-2119524004-56
	GHS/CLP: Aquatic Chronic 4: H413
1 - < 2,5	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts
	CAS: 68649-42-3, EINECS/ELINCS: 272-028-3, Reg-No.: 01-2119493635-27-XXXX
	GHS/CLP: Aquatic Chronic 2: H411 - Eye Dam. 1: H318
< 0,25	Branched alkylphenol and calcium branched alkylphenol
	CAS: 74499-35-7 & 132752-19-3
	GHS/CLP: Repr. 1B: H360 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - Aquatic Chronic 1: H410, M = 1

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%. For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

be used

4.1	Description of first aid measures		
	General information	Take off contaminated clothing and wash before reuse.	
	Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.	
	Skin contact	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.	
	Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
	Ingestion	Consult a doctor immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.	

4.2 Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed 4.3

> Treat symptomatically. Forward this sheet to the doctor.

SEC	TION 5: Fire-fighting measures	
5.1	Extinguishing media	
	Suitable extinguishing media	foam, dry powder, water spray jet, carbon dioxide
	Extinguishing media that must not	Full water jet

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5.2	Special hazards arising from the	
		Not combusted hydrocarbons. Risk of formation of toxic pyrolysis products.
		Phosphorus oxides (POx).
		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 within the local regulations.
SEC	TION 6: Accidental release measu	res
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 contair	nment 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
SEC	TION 7: Handling and storage	
7.1	Precautions for safe handling	
		Avoid formation of aerosols.
		Do not smoke.
		Fire class (DIN EN 2): B
		Do not eat, drink or smoke when using this product. Use barrier skin cream.
		Wash hands before breaks and after work.
		Cloths contaminated with product should not be kept in trouser pockets.
7.2	Conditions for safe storage, inclu-	uding any incompatibilities
		Keep only in original container. Prevent penetration into the ground.
		Do not store together with oxidizing agents.
		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)

not applicable

DNEL

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1	
Industrial, inhalative, Long-term - local effects: 5.6 mg/m³ 5.6 mg/m³.	
Industrial, dermal, Long-term - systemic effects: 1 mg/kg bw/day 5.6 mg/m³.	
Industrial, inhalative, Long-term - systemic effects: 2.7 mg/m ³ .	
general population, oral, Long-term - systemic effects: 0.74 mg/kg bw/day 5.6 mg/m³.	

PNEC

Substance	
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1	
oral (food), 9,33 mg/kg.	

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances. General exposure limit for oil mist should be noted.
Eye protection	If there is a risk of splashing: safety glasses
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. > 0,11 mm; Nitrile rubber, >480 min (EN 374-1/-2/-3).
Skin protection	light protective clothing
Other	Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Avoid contact with eyes and skin.
Respiratory protection	Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, combination filter A-P1. (DIN EN 14387)
Thermal hazards	none
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	yellow-brown
Odor	characteristic
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	No information available.
Flash point [°C]	> 200 (ISO 2592)
Flammability (solid, gas) [°C]	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	< 0,01 (20°C)
Density [g/ml]	0,858 (DIN 51757) (15 °C / 59,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	immiscible
Partition coefficient [n-octanol/water]	No information available.
Viscosity	> 20,5 mm²/s (40° C) ~ 13,5 - 15 mm²/s (100°C) (DIN 51562/T1)
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	~ -36(ISO 3016)
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous decomposition products

In the case of heating following (decomposition) products may occure: Hydrogen sulfide (H2S).

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
oral, Based on the available information, the classification criteria are not fulfilled .:
inhalative, Based on the available information, the classification criteria are not fulfilled.:
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: >= 2000 mg/kg (OECD 402).	
LD50, oral, Rat: >= 5000 mg/kg (OECD 401).	
LC50, inhalative, Rat: >= 5,53 mg/l (OECD 403).	

Serious eye damage/irritation	Toxicological data of complete product are not available. Irritant Calculation method
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.
Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	No classification due to substance-specific concentration limits. SCL (CAS 74499-35-7&132752-19-3): ≥ 0,3% H360
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.

SECTION 12: Ecological information

12.1 Toxicity

Product	
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	
EL50, (24h), Daphnia magna: >10000 mg/l (OECD).	
LL50, (96h), Pimephales promelas: >100 mg/l (OECD).	
NOEL, (72h), Pseudokirchneriella subcapitata: >100 mg/l (OECD).	
NOEL, (21d), Daphnia magna: 10 mg/l (OECD).	

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	Can be separated out mechanically in purification plants.
Biological degradability	The product is only slightly biodegradable. Slightly eliminable from water.

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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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

	In according to RoHS! Coordinate disposal with the disposal contractor/authorities if necessary. Disposal in an incineration plant in accordance with the regulations of the local authorities.
Waste no. (recommended)	130205* mineral-based non-chlorinated engine, gear and lubricating oils
Contaminated packaging	
	Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.
Waste no. (recommended)	150110*

SECTION 14: Transport information

14.1	UN 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"

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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		
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 f	to 8.		
14.7	Transport in bulk according to An	nex 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 EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014 TRANSPORT-REGULATIONS DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2017). NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011). Observe employment restrictions for people Observe employment restrictions for young people. • VOC (2010/75/CE) 0 %

15.2 Chemical safety assessment

not applicable

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SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

- H410 Very toxic to aquatic life with long lasting effects.
- H319 Causes serious eye irritation.
- H315 Causes skin irritation.
- H360 May damage fertility or the unborn child.
- H318 Causes serious eye damage.
- H411 Toxic to aquatic life with long lasting effects.
- 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

ELINCS = European List of Notified Chemical Substances

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

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	Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
Modified position	SECTION 3 been added: Phenol, 2,2'-polythiobis[4-C8-30-alkyl derivs., calcium salts, overbased

SECTION 3 deleted: Phenol, 2,2'-polythiobis[4-C8-30-alkyl derivs., calcium salts, overbased