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SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1 Product identifier			
		febi 32936 Engine Oil 5W - 40 Article number: 32936, 32937, 32938, 32939, 32940, 72936, 72938, 72939, 77940	
1.2	Relevant identified uses of the s	ubstance or mixture and uses advised against	
1.2.1	Relevant uses		
		Engine oil	
1.2.2	2 Uses advised against		
		For all uses not specified in SECTION 1.2.1	
1.3	Details of the supplier of the safe	ety 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)	
SEC	TION 2: Hazards identification		
2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]			
		Eye Irrit. 2: H319 Causes serious eye irritation. Skin Sens. 1: H317 May cause an allergic skin reaction. Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.	
2.2	Label elements		
		The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).	
	Hazard pictograms		
	Signal word	WARNING	
	Contains:	Calcium long chain alkyl aryl sulfonate	
	Hazard statements	H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.	
	Precautionary statements	 P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P280 Wear protective gloves / 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. P333+P313 If skin irritation or rash occurs: Get medical advice / attention. P501 Dispose of contents / container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. 	

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2.3 Other hazards

Human health dangers	Frequent persistent contact with the skin can cause skin irritation. If swallowed or in the event of vomiting, risk of product entering the lungs.
Environmental hazards	Does not contain any PBT or vPvB substances.
Other hazards	none

SECTION 3: Composition / Information on ingredients

Product-type:

3.2 The product is a mixture.

	Range [%]	Substance	
			troleum), C20-50, hydrotreated neutral oil-based
			EINECS/ELINCS: 276-738-4, EU-INDEX: 649-483-00-5, Reg-No.: 01-2119474889-13-XXXX
			x. 1: H304
1 - < 5 Polyolefine polyam		Polyolefine polyam	ine succinimide, polyol
		CAS: 147880-09-9	, EINECS/ELINCS: Polymer
		GHS/CLP: Aquatic	Chronic 4: H413
	1 - < 2,5	Phenol, dodecyl-, s	sulfurized, carbonates, calcium salts, overbased
		CAS: 68784-26-9	
		GHS/CLP: Aquatic	Chronic 4: H413,
		M_acute = 1	
	1 - < 2,5	Bis(nonylphenyl)an	nine
		CAS: 36878-20-3,	EINECS/ELINCS: 253-249-4, Reg-No.: 05-2114603735-5
		GHS/CLP: Aquatic	Chronic 4: H413
	1 - < 2,5	Calcium long chain	alkyl aryl sulfonate
		CAS: 722503-68-6	, EINECS/ELINCS: 682-816-2
		GHS/CLP: Skin Se	ns. 1: H317 - Aquatic Chronic 4: H413
	1 - < 2,5	Phosphorodithioic a	acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts
		CAS: 68784-31-6,	EINECS/ELINCS: 272-238-5, Reg-No.: 01-2119657973-23-XXXX
		GHS/CLP: Eye Dam. 1: H318 - Aquatic Chronic 2: H411	
	< 0,25	Phenol, dodecyl-, b	pranched
		CAS: 121158-58-5, EINECS/ELINCS: 310-154-3, EU-INDEX: 604-092-00-9	
	GHS/CLP: Skin Cc 1: H318, M_acute = 10		prr. 1C: H314 - Aquatic Chronic 1: H410 - Repr. 1B: H360F - Aquatic Acute 1: H400 - Eye Dam
	Comment on com	ponent parts	All chemical substances in this material are included on or exempted from listing on the IECSC Inventory. Substances of Very High Concern - SVHC: substances are not contained or are below 0.1% For full text of H-statements: see SECTION 16.
C	FION 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. 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.

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4.2	Most important symptoms and e	ffects, both acute and delayed No information available.	
4.3	Indication of any immediate med	lical attention and special treatment needed	
		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 be used	Full water jet	
5.2	Special hazards arising from the	substance or mixture	
		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	Ires	
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 contain		
		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.	

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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. Protect from heat/overheating.

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 (GB)

not applicable

DNEL

PNEC

Substance	
Lubricating	oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
Industrial, ir 5.6 mg/m ³ .	nhalative, Long-term - local effects: 5.6 mg/m ³
Industrial, d 5.6 mg/m ³ .	ermal, Long-term - systemic effects: 1 mg/kg bw/day
Industrial, ir	nhalative, Long-term - systemic effects: 2.7 mg/m ³ .
general pop 5.6 mg/m³.	pulation, oral, Long-term - systemic effects: 0.74 mg/kg bw/day
Phosphorod	dithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts, CAS: 68784-31-6
Industrial, d	lermal, Acute - systemic effects: 100 mg/kg bw/d.
Industrial, d	lermal, Long-term - systemic effects: 10,42 mg/kg bw/d.
Industrial, in	nhalative, Acute - systemic effects: 496,4 mg/m ³ .
Industrial, ir	nhalative, Long-term - systemic effects: 2,93 mg/m ³ .
general pop	pulation, oral, Acute - systemic effects: 29 mg/kg bw/d.
general pop	pulation, oral, Long-term - systemic effects: 0,21 mg/kg bw/d.
general pop	pulation, dermal, Acute - systemic effects: 50 mg/kg bw/d.
general pop	pulation, dermal, Long-term - systemic effects: 2,1 mg/kg bw/d.
general pop	ulation, inhalative, Acute - systemic effects: 198,6 mg/m ³ .
general pop	ulation, inhalative, Acute - systemic effects: 11,75 mg/m ³ .
Substance	
Lubricating	oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
oral (food),	9,33 mg/kg.
Phosphorod	dithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts, CAS: 68784-31-6
oral (food),	8,33 mg/kg.
soil, 0,0548	mg/kg.
sewage trea	atment plants (STP), 3,8 mg/l.
sediment (f	reshwater), 0,0701 mg/l.
sediment (s	eawater), 0,00701 mg/l.
freshwater,	0,0040 mg/l.
seawater, 0	,0046 mg/l.

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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.

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) ca. 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]	ca36(ISO 3016)
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.

9.2 Other information

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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
Bis(nonylphenyl)amine, CAS: 36878-20-3
LD50, oral, Rat: >5000 mg/kg (IUCLID).
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).
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts, CAS: 68784-31-6
LD50, dermal, Rabbit: >5000 mg/kg bw.

LD50, oral, Rat: 2750 mg/kg bw.

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	May cause an allergic skin reaction. Calculation method
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. Calculation method
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.

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SECTION 12: Ecological information

12.1 Toxicity

Product		
Based on the available information, the classification criteria are not fulfilled.:		
Substance		
Bis(nonylphenyl)amine, CAS: 36878-20-3		
LC50, (96h), Crustacea: 18,9 - 39,2 mg/l.		
_C50, (96h), fish: >1000 mg/l.		
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, (21d), Daphnia magna: 10 mg/l (OECD).		
NOEL, (72h), Pseudokirchneriella subcapitata: >100 mg/l (OECD).		
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts, CAS: 68784-31-6		
EC50, (16h), Pseudomonas putida: 380 mg/l.		
C50, (21d), Daphnia magna: >0,8 mg/l.		
EL50, (48h), Daphnia magna: 75 mg/l.		
EL50, (72h), Desmodesmus subspicatus: 410 mg/l.		
NOEC, (21d), Daphnia magna: 0,8 mg/l.		
NOELR, (48h), Daphnia magna: 32 mg/l.		
NOELR, (96h), Oncorhynchus mykiss: 3,2 mg/l.		
LL50, (96h), Oncorhynchus mykiss: 4,4 mg/l.		
EC0, (16h), Pseudomonas putida: 200 mg/l.		
_OEC, (21d), Daphnia magna: 0,8 mg/l.		

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.

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.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material c 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*	
SEC	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"	
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	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	
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14.0	Special precautions for user	
	Relevant information under SECTION 6	to 8.
14.7	I.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	
	not applicable	
SEC	TION 15: Regulatory information	
15.1	EEC-REGULATIONS	regulations/legislation specific for the substance or mixture 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014
	TRANSPORT-REGULATIONS	ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)
	NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
	- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
	- VOC (2010/75/CE)	0 %
15 2	Chemical safety assessment	
10.2		not applicable
SECTION 16: Other information		
16.1. Herered externante		
16.1	Hazard statements (SECTION 03)	

H411 Toxic to aquatic life with long lasting effects.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H314 Causes severe skin burns and eye damage.

H360F May damage fertility. H410 Very toxic to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways.

H413 May cause long lasting harmful effects to aquatic life.

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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

RID = Reglement 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

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 procedureEye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

Modified position

none