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1.1	Product identifier	
		febi 177649 Engine Oil 0W - 20 Article number: 177649, 177650, 177651
.2	Relevant identified uses of the	substance or mixture and uses advised against
.2.1	Relevant uses	
		Engine oil
.2.2	Uses advised against	
	J. J	For all uses not specified in SECTION 1.2.1
.3	Details of the supplier of the sa	ifety 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	
	Advisory body	+49 (0)89-19240 (24h) (English)
SEC	TION 2: Hazards identification	
.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 (GB).
	Hazard pictograms	
	Signal word	none
	Hazard statements	none
	Precautionary statements	none
	Special labelling	EUH210 Safety data sheet available on request.
		Contains: Calcium sulfonate, Calcium long-chain alkyl salicylate. EUH208 May produce ar allergic reaction.
2.3	Other hazards	
	Physico-chemical hazards	No particular hazards known.
	Human health dangers	Frequent persistent contact with the skin can cause skin irritation.
	Environmental hazards	Does not contain any PBT or vPvB substances.

3.1 Substances

not applicable

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3.2 Mixtures

The product is a mixture.

Range [%]	Substance
50 - < 100	Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract)
	CAS: 64742-54-7
	GHS/CLP: Asp. Tox. 1: H304
1 - < 10	1-Decene, homopolymer, hydrogenated
	CAS: 68037-01-4
	GHS/CLP: Asp. Tox. 1: H304
1 - < 5	Bis(nonylphenyl)amine
	CAS: 36878-20-3
	GHS/CLP: Aquatic Chronic 4: H413
1 - < 5	Benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroy-, C7-C9-branched alkyl ester
	CAS: 125643-61-0
	GHS/CLP: Aquatic Chronic 4: H413
0.1 - < 1	Calcium sulfonate
	GHS/CLP: Skin Sens. 1B: H317
0.1 - < 1	Calcium long-chain alkyl salicylate
	GHS/CLP: Skin Sens. 1B: H317
0.1 - < 1	Benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroy-, C7-C9-branched alkyl ester CAS: 125643-61-0 GHS/CLP: Aquatic Chronic 4: H413 Calcium sulfonate GHS/CLP: Skin Sens. 1B: H317 Calcium long-chain alkyl salicylate

Comment on component 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 and R-phrases: see SECTION 16.

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 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.	

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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.
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	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. 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, inclu	uding 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 (GB)

Substance	
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract)	
CAS: 64742-54-7	
Long-term exposure: 5 mg/m ³ , oil mist	
Short-term exposure (15-minute): 10 mg/m ³	
1-Decene, homopolymer, hydrogenated	
CAS: 68037-01-4	
Long-term exposure: 5 mg/m ³ , OSHA PEL	

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
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
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, inhalative, Long-term - local effects, 1.19 mg/m ³
general population, oral, Long-term - systemic effects, 740 µg/kg bw/day
Benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroy-, C7-C9-branched alkyl ester, CAS: 125643-61-0
Industrial, inhalative, Long-term - systemic effects, 2.33 mg/m ³
Industrial, inhalative, Acute - systemic effects, 1750 mg/m ³
Industrial, dermal, Acute - systemic effects, 20 mg/kg bw/day
Industrial, dermal, Long-term - local effects, 6 µg/cm ²
Industrial, dermal, Acute - local effects, 1 mg/cm ²
Industrial, dermal, Long-term - systemic effects, 220 µg/kg bw/day
general population, inhalative, Long-term - systemic effects, 740 µg/m ³
general population, inhalative, Acute - systemic effects, 875 mg/m ³
general population, dermal, Long-term - systemic effects, 330 µg/kg bw/day
general population, dermal, Acute - local effects, 8.33 mg/cm ²
general population, oral, Long-term - systemic effects, 160 µg/kg bw/day
general population, oral, Acute - systemic effects, 50 mg/kg bw/day

PNEC

Substance
Bis(nonylphenyl)amine, CAS: 36878-20-3
sediment (seawater), 0.1 mg/kg sediment dw
sediment (freshwater), 1 mg/kg sediment dw
seawater, 41.2 µg/L
freshwater, 412 µg/L
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
oral (food), 9,33 mg/kg

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Benzenep	propanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroy-, C7-C9-branched alkyl ester, CAS: 125643-61-0
oral (food), 41.33 mg/kg food
sediment	(seawater), 37 - 23300 μg/kg sediment dw
soil, 50 - ⁻	189000 μg/kg soil dw
sediment	(freshwater), 370 - 233000 µg/kg sediment dw
sewage tr	eatment plants (STP), 1 - 100 mg/L
seawater,	30 - 1800 ng/L
freshwate	r, 4.3 - 30 μg/L

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.	
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	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	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

9.1 Information on basic physical and chemical properties

	Physical state	liquid
	Color	green
	Odor	characteristic
	Odour threshold	No information available.
	pH-value	not applicable
	pH-value [1%]	No information available.
	Boiling point [°C]	No information available.
	Flash point [°C]	230
	Flammability (solid, gas) [°C]	not applicable
	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	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.
	Kinematic viscosity	42.3 mm²/s (40°C)
	Relative vapour density	No information available.
	Evaporation speed	No information available.
	Melting point [°C]	No information available.
	Auto-ignition temperature	No information available.
	Decomposition temperature [°C]	No information available.
	Particle characteristics	No information available.
,	Other information	

9.2 Other information

No information available.

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

No special measures necessary.

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10.5 Incompatible materials

Oxidizing agent Acids Strong basic compounds

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Product

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

Substance	
1-Decene, hom	ppolymer, hydrogenated, CAS: 68037-01-4
LD50, oral, Rat	>5000 mg/kg, no adverse effect observed
LD50, oral, Rat	2000 - 5000 mg/kg bw
Bis(nonylpheny)amine, CAS: 36878-20-3
LD50, oral, Rat	5000 mg/kg bw
Destillates (pet	oleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
LD50, oral, Rat	5000 mg/kg bw
Benzenepropar	oic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroy-, C7-C9-branched alkyl ester, CAS: 125643-61-0
LD50, oral, Rat	500 - 2000 mg/kg bw

Acute dermal toxicity

Product

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

Substance

1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4

LD50, dermal, Rat, >2000 mg/kg bw, OECD 402

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

LD50, dermal, Rabbit, 2000 - 5 00 mg/kg bw

Benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroy-, C7-C9-branched alkyl ester, CAS: 125643-61-0

LD50, dermal, Rat, 2000 mg/kg bw

Acute inhalational toxicity

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

Substance

1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4

LC50, inhalative, Rat, >5.2 mg/L air, OECD 403, no adverse effect observed

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

LC50, inhalative, Rat, 2.18 - 5.53 mg/L air, 4h

Serious eye damage/irritation

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

Substance 1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4 OECD 404, non-irritating

Skin corrosion/irritation

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

Substance

1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4

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	OECD 405, non-irri	tating	
Respiratory or ski	n sensitisation	May produce an allergic reaction. Calculation method Based on the available information, the classification criteria are not fulfilled.	
	Substance		
	L	lymer, hydrogenated, CAS: 68037-01-4	
	non-sensitizing		
Specific target org single exposure	gan toxicity —	Based on the available information, the classification criteria are not fulfilled.	
Specific target org		Based on the available information, the classification criteria are not fulfilled.	
	Substance		
	1-Decene, homopo	lymer, hydrogenated, CAS: 68037-01-4	
	oral, Rat, no advers	se effect observed	
	Bis(nonylphenyl)am	nine, CAS: 36878-20-3	
	NOEL, oral, Rat, 10	00 mg/kg bw/day	
	Destillates (petroleu	um), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7	
	NOAEL, dermal, Ra	abbit, 1000 mg/kg bw/day	
	NOAEL, dermal, Ra	at, 30 - 2000 mg/kg bw/day	
	NOAEC, inhalative, Rat, 980 mg/m ³ air		
	LOAEL, oral, Rat, 125 mg/kg bw/day		
	Benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroy-, C7-C9-branched alkyl ester, CAS: 125643-61-0		
	NOAEL, dermal, Ra	at, 500 - 1000 mg/kg bw/day	
	NOAEL, oral, Rat, 3	3 - 750 mg/kg bw/day	
Mutagenicity		Based on the available information, the classification criteria are not fulfilled.	
	Substance		
1-Decene, homopolymer, hydrogenated, CAS: 68037-0		lymer, hydrogenated, CAS: 68037-01-4	
	no adverse effect observed		
Reproduction toxi	-	Based on the available information, the classification criteria are not fulfilled.	
	Substance		
		lymer, hydrogenated, CAS: 68037-01-4	
No information ava		ilable.	
Carcinogenicity	-	Based on the available information, the classification criteria are not fulfilled.	
	Substance		
		lymer, hydrogenated, CAS: 68037-01-4	
	No information available	lladie.	
Application based		Depend on the qualitable information, the standingtion stitution set of the standard	
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

Substance
1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4
EL50, (48h), Invertebrates, >1000mg/L
NOELR, (21d), Invertebrates, 125mg/L
NOELR, (72h), Algae, 1000 mg/L
LL50, (96h), fish, >1000mg/L
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
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
EL50, (48h), Invertebrates, 10 g/L
NOELR, (14d), fish, 1 mg/L
LL50, (96h), Invertebrates, 10 g/L
LL50, (96h), fish, 100 mg/L
Benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroy-, C7-C9-branched alkyl ester, CAS: 125643-61-0
LC50, (14d), fish, 100 mg/L
EC50, (48h), Invertebrates, 8.2 - 1000000 µg
EC50, (72h), Algae, 180 - 3000000 ng/L
EC50, (3h), Water microorganisms, 100 - 1000 mg/L
NOEC, (21d), Invertebrates, 10 µg/L
NOEC, (33d), fish, 360 µg/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 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

No information available.



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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. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with national regulations.

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.

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 t	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		
	TRANSPORT-REGULATIONS	ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)	
	NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.	
	- 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)	not applicable	
15.2	5.2 Chemical safety assessment		

not applicable

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SECTION 16: Other information

16.1 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

16.2 Other information

Classification procedure

Modified position

none

