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		stance/mixture and of the company/undertaking
1.1	Product identifier	
		febi 108350 Engine Oil 5W-20 HC E-FO Article number: 108350, 108351, 108352
1.2	Relevant identified uses of the	substance or mixture and uses advised against
1.2.	1 Relevant uses	
		Lubricant
1.2.3	2 Uses advised against	
		None known.
4.0	Details of the sumplier of the se	
1.3	Details of the supplier of the sa	rety data sheet Ferdinand Bilstein GmbH + Co. KG
	Company	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 info@febi.com
	Safety Data Sheet	Into@lebi.com
1.4	Emergency telephone number	
	Advisory body	+49 (0)89-19240 (24h) (English)
SEC	CTION 2: Hazards identification	
2.1	Classification of the substance	or mixture [REGULATION (EC) No 1272/2008]
		No classification.
2.2	Label elements	
2.2	Laber clements	The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (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.
		Frequent persistent contact with the skin can cause skin irritation.
	Human health dangers	
	Human health dangers Environmental hazards	Does not contain any PBT or vPvB substances.

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SECTION 3: Composition / Information on ingredients

Product-type:

3.2 The product is a mixture.

	Range [%] Substance	
	50 - < 100 Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract)	
	CAS: 64742-54-7, EINECS/ELINCS: 265-157-1, EU-INDEX: 649-467-00-8, Reg-No.: 01-2119484627-25-XXX	
GHS/CLP: Asp. Tox. 1: H304		ox. 1: H304
	1 - < 5 C14-16-18 Alkyl phenol	
	EINECS/ELINCS: 931-468-2	
	GHS/CLP: Skin Se	ens. 1: H317 - STOT RE 2: H373
	1 - < 5 Bis(nonylphenyl)ar	nine
	CAS: 36878-20-3,	EINECS/ELINCS: 253-249-4, Reg-No.: 01-2119488911-28-XXXX
	GHS/CLP: Aquatic	Chronic 4: H413
	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.
SEC	TION 4: First aid measures	
4.1	Description of first aid measures	5
	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 e	ffects, both acute and delayed
		If swallowed or in the event of vomiting, risk of product entering the lungs.
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	e substance or mixture
	-	Risk of formation of toxic pyrolysis products. Carbon monoxide (CO) Sulphur oxides (SOx). Nitrogen oxides (NOx). Hydrogen sulfide ((H2S).

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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 measur	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 contain	ment 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	ding 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)

not applicable

DNEL

Substance
Bis(nonylphenyl)amine, CAS: 36878-20-3
Industrial, dermal, Long-term - systemic effects: 5 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 0,25 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 2,5 mg/kg bw/day.
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
Industrial, dermal, Long-term - systemic effects: 1 mg/kg bw/day.
Industrial, inhalative, Long-term - local effects: 5,6 mg/m ³ .
Industrial, inhalative, Long-term - systemic effects: 2,7 mg/m ³ .
general population, oral, Long-term - systemic effects: 0,74 mg/kg bw/day.
Substance
Bis(nonylphenyl)amine, CAS: 36878-20-3
soil, 263000 mg/kg.
sediment (seawater), 13200 mg/kg.
sediment (freshwater), 132000 mg/kg.
sewage treatment plants (STP), 1 mg/l.
seawater, 0,01 mg/l.
freshwater, 0,1 mg/l.
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-
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.
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

1,2	
Form	liquid
Color	amber colour
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]	232
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/ml]	ca. 0.85 (DIN 51757) (15 °C / 59,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	virtually insoluble
Partition coefficient [n-octanol/water]	No information available.
Viscosity	42.2 mm²/s (40°C)
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.

Other information 9.2

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.

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 toxicity

	Product
	inhalative, Based on the available information, the classification criteria are not fulfilled.:
oral, 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, dermal, Rat: >2000 mg/kg (OECD 402).
LD50, oral, Rat: >5000 mg/kg (OECD 401).
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
LD50, dermal, Rabbit: > 2000 mg/kg.
LD50, oral, Rat: > 5000 mg/kg.
LC50, dermal, Rat: 2,18 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	EC: 931-468-2 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.
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.
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

Substance
Bis(nonylphenyl)amine, CAS: 36878-20-3
EC50, (48h), Daphnia magna: >100 mg/l (OECD 202).
LC0, (96h), Brachidanio rerio: 58 mg/l (OECD 203).
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
EL50, (24h), Daphnia magna: > 10000 mg/l.
NOELR, (14d), Oncorhynchus mykiss: >= 1000 mg/l.
LL50, (96h), Pimephales promelas: >100 mg/l.
NOEL, (72h), Pseudokirchneriella subcapitata: >= 100 mg/l.
NOEL, (21d), Daphnia magna: 10 mg/l.

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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 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 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

14.1

	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!
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

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

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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)	
14.0	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	10 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

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ECTION 15: Regulatory information	
5.1 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 (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)	not applicable
5.2 Chemical safety assessment	
	not applicable
ECTION 16: Other information	
6.1 Hazard statements (SECTION 03)	
	H373 May cause damage to organs through prolonged or repeated exposure. H317 May cause an allergic skin reaction.
	H413 May cause long lasting harmful effects to aquatic life. H304 May be fatal if swallowed and enters airways.
6.2 Abbreviations and acronyms:	
	ADR = Accord européen relatif au transport international des marchandises Dangereuses pa Route RID = Règlement concernant le transport international ferroviaire de marchandises
	ADN = Accord européen relatif au transport international des marchandises dangereuses pa 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

16.3 Other information

Classification procedure

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Modified position

SECTION 3 been added: C14-16-18 Alkyl phenol SECTION 2 been added: EUH208 May produce an allergic reaction.