

Ferdinand Bilstein GmbH + Co. KG

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•	
cal information	
	info@febi.com
Data Sheet	info@febi.com
jency telephone number ry body	+49 (0)89-19240 (24h) (english)
Hazards identification	
fightion of the substance of	
	Skin Sens. 1B: H317 May cause an allergic skin reaction.
elements	
	The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).
pictograms	
word	WARNING
ns:	C14-16-18 Alkyl phenol
statements	H317 May cause an allergic skin reaction.
tionary 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. 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.
hazards	
o-chemical hazards	No particular hazards known.
health dangers	Frequent persistent contact with the skin can cause skin irritation.
nmental hazards	Does not contain any PBT or vPvB substances.
nazards	Further hazards were not determined with the current level of knowledge.
	ry body Hazards identification fication of the substance of elements pictograms word hs: statements tionary statements hazards b-chemical hazards health dangers mental hazards



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SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

	Range [%]	Substance		
	30 - < 60	U 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 C14-16-18 Alkyl phenol			
		EINECS/ELINCS: 9		
			ns. 1: H317 - STOT RE 2: H373	
	1 - 5			
	1-5	5 Bis(nonylphenyl)amine CAS: 36878-20-3 FINECS/FLINCS: 253-249-4 Reg-No : 01-2119488911-28-XXXX		
		CAS: 36878-20-3, EINECS/ELINCS: 253-249-4, Reg-No.: 01-2119488911-28-XXXX		
	4 5	GHS/CLP: Aquatic Chronic 4: H413		
	1-5	- 5 Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)		
			EINECS/ELINCS: 298-577-9, Reg-No.: 01-2119543726-33-XXXX	
		GHS/CLP: Eye Dam	n. 1: H318 - Skin Irrit. 2: H315 - Aquatic Chronic 2: H411	
	Comment on com	ponent parts	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 fi	rst 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	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 the doctor.	
SEC	TION 5: Fire-fight	ing measures		
5 4	Extinguishing m	adia		
5.1	Extinguishing m			
	Suitable extinguis	hing media	foam, dry powder, water spray jet, carbon dioxide	
	Extinguishing mee be used	dia that must not	Full water jet.	
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).	

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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 disp the local regulations.	osed of in accorda	ance within
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 ba Do not discharge into the drains/surface waters/groundwater.	arriers).	
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 regulat		
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		
		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 trouse	r 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

PNEC

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.	
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623	3-87-1
Industrial, inhalative, Long-term - local effects: 5.6 mg/m ³ 5.6 mg/m ³ .	
Industrial, dermal, Long-term - systemic effects: 1 mg/kg bw/day 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 5.6 mg/m³.	
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate), CAS: 93819)-94-4
Industrial, dermal, Long-term - systemic effects: 0,58 mg/kg bw/d (AF=120).	
Industrial, inhalative, Long-term - systemic effects: 8,31 mg/m ³ .	
general population, inhalative, Long-term - systemic effects: 2,11 mg/m³ (AF=60)).
general population, oral, Long-term - systemic effects: 0,24 mg/kg bw/d (AF=600	0).
general population, dermal, Long-term - systemic effects: 0,29 mg/kg bw/d (AF=	=240).
Substance	
Bis(nonylphenyl)amine, CAS: 36878-20-3	
soil, 263000 mg/kg.	
sediment (seaater), 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.	
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623	3-87-1
oral (food), 9,33 mg/kg.	
Zinc his[O-(6-methylbentyl)] his[O-(sec-hutyl)] his(dithionhosphate) CAS: 93819	

Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate), CAS: 93819-94-4

oral (food), 10,67 mg/kg dw (AF=300).

soil, 0,005 mg/kg dw.

sediment (seaater), 0,001 mg/kg dw.

sediment (freshwater), 0,012 mg/kg dw.

sewage treatment plants (STP), 100 mg/l (AF=100).

seawater, 4,6 µg/l (AF=10 000).

freshwater, 4 µg/l (AF=100).

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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.	
	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 pro		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.	

SECTION 9: Physical and chemical properties

9.2

9.1 Information on basic physical and chemical properties

Form	liquid
Color	light brown
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]	> 195 (ISO 2592)
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]	<0,01 (20°C)
Density [g/ml]	~ 0,85 (DIN 51757) (15 °C / 59,0 °F)
Bulk density [kg/m ³]	not applicable
Solubility in water	virtually insoluble
Partition coefficient [n-octanol/water]	No information available.
Viscosity	~ 10,2 mm²/s (100°C) (DIN 51562/T1) > 20,5 mm²/s (40°C)
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	< -30 (DIN ISO 3016)
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	> 65°C
Other information	



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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

strong acids Strong heating, because the thermal decomposition starts from > 65°C.

10.5 Incompatible materials

Oxidizing agent Acids Strong basic compounds

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

Substance
Bis(nonylphenyl)amine, CAS: 36878-20-3
LD50, dermal, Rat: >2000 mg/kg (OECD 402).
LD50, oral, Rat: >5000 mg/kg (OECD 401).
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).
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate), CAS: 93819-94-4
LD50, dermal, Rabbit: >3160 mg/kg bw.
LD50, oral, Rat: 2600 mg/kg bw.
LC50, inhalative, Rat: >2 mg/l air.

Serious eye damage/irritation	Toxicological data of complete product are not available. No classification. Classification was carried out based on substance-specific concentration limits.
Skin corrosion/irritation	Based on the available information, the classification criteria are not fulfilled.
Respiratory or skin sensitisation	Toxicological data of complete product are not available. 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	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.

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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).
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).
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate), CAS: 93819-94-4
EC50, (72h), Selenastrum capricornutum: 2,1 mg/l.
EC50, (48h), Daphnia magna: 5,4 mg/l.
IC50, (21d), Daphnia magna: >0,8 mg/l.
LL50, (96h), Oncorhynchus mykiss: 4,5 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 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.



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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

	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

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 Inland navigation (ADN) not applicable

Marine transport in accordance with not applicable IMDG

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	7 Transport in bulk according to Annex II of MARPOL and the IBC Code		
	not applicable		
SECTION 15: Regulatory information			
15.1	afety, health and environmental regulations/legislation specific for the substance or mixture		
	EEC-REGULATIONS	1991/689 (2001/18); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH);	

10/75; 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 (2018). NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011). - Observe employment restrictions Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people. for people - VOC (2010/75/CE) not applicable

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H304 May be fatal if swallowed and enters airways.

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.

H411 Toxic to aquatic life with long lasting effects.

H315 Causes skin irritation.

H318 Causes serious eye damage.



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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 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** Skin Sens. 1B: H317 May cause an allergic skin reaction. (Calculation method) none

Modified position