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SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1 febi 28193 grease Article number: 28194, 28193, H-160013 1.2 Relevant identified uses of the substance or mixture and uses advised against 1.2.1 Relevant uses Lubricant 1.2.2 Uses advised against None known. Details of the supplier of the safety data sheet 1.3 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) Company +49 2333 911-0 **SECTION 2: Hazards identification** 2.1 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. Hazard pictograms none Signal word none Hazard statements none **Precautionary statements** none **Special labelling** EUH210 Safety data sheet available on request. Contains: Naphthenic acids, zinc salts. EUH208 May produce an allergic reaction. Other hazards 2.3 **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. Other hazards none **SECTION 3: Composition / Information on ingredients**

- 3.1 Substances
 - not applicable

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3.2 Mixtures

inditivity iso-Bu and iso-Pr) esters, zinc salts inditivity iso-acids, iso it it iso it iso it it iso it iso it iso it it iso it iso it it
0-28-9, EINECS/ELINCS: 288-917-4, Reg-No.: 01-2119521201-61-XXXX Eye Dam. 1: H318 - Skin Irrit. 2: H315 - Aquatic Chronic 2: H411 5 - <20: Eye Irrit. 2: H319, 20 - 100: Eye Dam. 1: H318, 15 - 100: Skin Irrit. 2: H315 c acids, zinc salts 11-85-3, EINECS/ELINCS: 234-409-2, Reg-No.: 01-2120783834-41-XXXX Eye Irrit. 2: H319 - Skin Sens. 1B: H317 - Aquatic Chronic 2: H411 etraborate 17-60-2, EINECS/ELINCS: 234-514-3, Reg-No.: 01-2120770724-49 Eye Dam. 1: H318 - Acute Tox. 4: H302 - Repr. 2: H361d ts Substances of Very High Concern - SVHC: substances are not contained or are below 0.19 For full text of H-statements: see SECTION 16. easures Take off contaminated clothing and wash before reuse. Ensure supply of fresh air. In the event of symptoms seek medical treatment. When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
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In the event of symptoms seek medical treatment. When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
Consult a doctor if skin irritation persists.
Rinse cautiously with water for several minutes. Remove contact lenses, if present and eas to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Seek medical advice immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.
s and effects, both acute and delayed
Irritant effects
te medical attention and special treatment needed
Treat symptomatically.
Forward this sheet to your doctor.
ures
Foam, dry powder, water spray jet, carbon dioxide
st not Full water jet
om the substance or mixture
Not combusted hydrocarbons.

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5.3	Advice for firefighters		
		Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus.	
		Cool containers at risk with water spray jet. 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	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		
		Do not discharge into the drains/surface waters/groundwater.	
6.3 Methods and material for containment 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		
		No special measures necessary if used correctly.	
		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 food and animal food/diet.	
		Keep container tightly closed. Keep container in a well-ventilated place.	
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

Sub	ostance
Pho	osphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts, CAS: 85940-28-9
Ind	ustrial, dermal, Long-term - systemic effects, 9,6 mg/kg bw/d
Ind	ustrial, inhalative, Long-term - systemic effects, 6,6 mg/m ³
ger	neral population, oral, Long-term - systemic effects, 0,19 mg/kg bw/d
ger	neral population, dermal, Long-term - systemic effects, 4,8 mg/kg bw/d
ger	neral population, inhalative, Long-term - systemic effects, 1,67 mg/m ³
Nap	ohthenic acids, zinc salts, CAS: 12001-85-3
Ind	ustrial, dermal, Long-term - systemic effects, 3.3 mg/kg bw/d (AF=30)
Ind	ustrial, inhalative, Long-term - systemic effects, 1.18 mg/m ³ (AF=75)
ger	neral population, inhalative, Long-term - systemic effects, 0.29 mg/m ³ (AF=150)
ger	neral population, oral, Long-term - systemic effects, 0.17 ng/kg bw/d (AF=600)
ger	neral population, dermal, Long-term - systemic effects, 1.7 mg/kg bw/d (AF=60)
Dili	thium tetraborate, CAS: 12007-60-2
Ind	ustrial, dermal, Long-term - systemic effects, 333 mg/kg bw/D (AF= 30)
Ind	ustrial, inhalative, Long-term - systemic effects, 7.1 mg/m ³ (AF= 12.5)
ger	neral population, oral, Long-term - systemic effects, 0.83 mg/kg bw/D (AF= 60)
ger	neral population, dermal, Long-term - systemic effects, 166 mg/kg bw/D (AF= 60)
ger	neral population, inhalative, Long-term - systemic effects, 1.74 mg/m³ (AF= 25)
Sub	ostance
Pho	osphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts, CAS: 85940-28-9
soil	, 15,7 mg/kg dw
sed	liment (seawater), 1,93 mg/kg dw
sed	liment (freshwater), 19,3 mg/kg dw
sev	vage treatment plants (STP), 100 mg/l (AF=100)

seawater, 0,0002 mg/l (AF=10000)

freshwater, 0,002 mg/l (AF=1000)

Naphthenic acids, zinc salts, CAS: 12001-85-3

soil, 0.001 mg/kg dw

sediment (seawater), 0.002 mg/kg dw

sediment (freshwater), 0.015 mg/kg dw

sewage treatment plants (STP), 689.7 µg/L (AF= 1)

seawater, 0 mg/L (AF= 10000)

freshwater, 0.004 mg/L (AF= 1000)

Dilithium tetraborate, CAS: 12007-60-2

sewage treatment plants (STP), mg/L (AF= 10)

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8.2 Exposure controls

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	If there is a risk of splashing: safety glasses
	Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. > 0,4 mm; Nitrile rubber, >480 min (EN 374-1/-2/-3). > 0,4 mm; Butyl 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

internation on sacre physical and	enemiea properties
Physical state	pasty
Color	green
Odor	characteristic
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	No information available.
Flash point [°C]	not applicable
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]	No information available.
Density [g/cm ³]	ca. 0,9 (DIN 51757) (15 °C / 59,0 °F)
Relative density	not determined
Bulk density [kg/m ³]	not applicable
Solubility in water	immiscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	No information available.
Kinematic viscosity	NLGI 3
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.

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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 Strong 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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

Product

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

Substance
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts, CAS: 85940-28-9
LD50, oral, Rat, 3080 mg/kg bw
Naphthenic acids, zinc salts, CAS: 12001-85-3
LD50, oral, Rat, > 2000 mg/kg
Dilithium tetraborate, CAS: 12007-60-2
LD50, oral, Rat, 300 - 2000 mg/kg bw

Acute dermal toxicity

Product

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

Substance

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts, CAS: 85940-28-9

LD50, dermal, Rabbit, 20000 mg/kg bw

Dilithium tetraborate, CAS: 12007-60-2

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

Acute inhalational toxicity

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

Substance

Product

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts, CAS: 85940-28-9 LC50, inhalative, Rat, 2.3 mg/L air, 4h

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		May produce an allergic 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.	
	Substance		
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts, CAS		acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts, CAS: 85940-28-9	

NOAEL, oral, Rat, 125 mg/kg bw/day

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.

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	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.	
11.2 Information on other		other hazards		
Endocri	Endocrine disrupt	ing properties	No information available.	
	Other information		none	
SEC	SECTION 12: Ecological information			
12.1	12.1 Toxicity			
	Product Based on the availa			
			ble information, the classification criteria are not fulfilled.	
		Substance		
		Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts, CAS: 85940-28-9		
		EC50, (96h), Algae, 2 - 2.1 mg/L		
		EC50, (48h), Invertebrates, 5.4 mg/L		

NOEC, (21d), Invertebrates, 400 - 800 µg/L

LL50, (96h), Oncorhynchus mykiss, 4,5 mg/l

Naphthenic acids, zinc salts, CAS: 12001-85-3

EC50, (72h), Algae, 4 mg/L

EL50, (48h), Daphnia magna, 35 mg/L

LL50, (96h), fish, 100 mg/L

Dilithium tetraborate, CAS: 12007-60-2

LC50, (96h), fish, 100 mg/L

EC50, (48h), Daphnia magna, 100 mg/L

IC50, (72h), Algae, 100 mg/L

NOEC, (72h), Algae, 32 mg/L

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

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. 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 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. Dispose of as hazardous waste.
Waste no. (recommended)	120112* spent waxes and fats
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* packaging containing residues of or contaminated by hazardous substances 150102 150104

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	not applicable
IMDG	

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 NOT CLASSIFIED AS "DANGEROUS GOODS" IMDG

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	not applicable
	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 t	0 8.
14.7	Maritime transport in bulk accordi	ng to IMO instruments
	not applicable	

SECTION 15: Regulatory information

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture		
	EEC-REGULATIONS	2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014	
	TRANSPORT-REGULATIONS	ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)	
	NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.	
	- Observe employment restrictions for people	not applicable	
	- VOC (2010/75/CE)	0 %	

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15.2 Chemical safety assessment		
-	not applicable	
SECTION 16: Other information		
16.1 Hazard statements (SECTION 3)		
	H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.	
	H411 Toxic to aquatic life with long lasting effects. H315 Causes skin irritation. H361d Suspected of damaging the unborn child. H302 Harmful if swallowed. H318 Causes serious eye damage.	
16.2 Abbreviations and acronyms:		
	ADR = Accord européen relatif au transport international des marchandises Dangereuses ar 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 No Effect Level DNEL = Derived No Effect Level ECS0 = Median effective concentration ECS = European Chemicals Bureau EEC = European Chemicals Bureau EEC = European List of Notified Chemical Substances ELS0 = Median effective loading ELINCS = European List of Notified Chemical Substances ELS0 = Median effective loading ELINCS = European List of Notified Chemical Substances ELS0 = Median effective loading ELINCS = European List of Notified Chemical Substances ELS0 = Median effective loading ELINCS = European List of Notified Chemical Substances ELS0 = Median effective loading ELINCS = Loropean Internsport Association IBC-Code = International Code for the Construction and Labelling of Chemicals IATA = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk ICG0 = Inhibition concentration, 50% IDSC = Median Iethal dose LC50 = Lethal concentration, 50% LDAEL = Iowest-observed-adverse-effect level LLS0 = Median Iethal dose IQC = Lethal concentration, 50% IDAEL = International Convention for the Prevention of Marine Pollution from Ships NOAEL = No Observed Adverse Effect Level NDCE = No Observed Effect Concentration REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals STP = Sewage Treatment Plant TLV®TWA = Threshold limit value – time-eweighted average TLV®STEL = Threshold limit value –	
16.3 Other information		
Classification procedure		

Classification procedure

Modified position

none

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