

Ferdinand Bilstein GmbH + Co. KG

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

febi 101170 High-performance oil for Haldex coupling Article number: 101170

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

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 info@febi.com Safety Data Sheet

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification

Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Eye Irrit. 2: H319 Causes serious eye irritation.

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

Hazard statements H319 Causes serious eye irritation.

Precautionary statements P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P280 Wear 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.

P337+P313 If eye irritation persists: 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.

Special labelling Contains: Calciumsulfonate, petroleum. EUH208 May produce an allergic reaction.

2.3 Other hazards

Environmental hazards Does not contain any PBT or vPvB substances.

Other hazards No particular hazards known.



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SECTION 3: Composition / Information on ingredients

Product-type:

3.2 The product is a mixture.

Range [%]	Substance
50 - < 100	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 - < 2,5	Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts
	CAS: 85940-28-9, EINECS/ELINCS: 288-917-4
	GHS/CLP: Eye Dam. 1: H318 - Skin Irrit. 2: H315 - Aquatic Chronic 2: H411
0,1 - < 1	Calciumsulfonate, petroleum
	CAS: 61789-86-4, EINECS/ELINCS: 263-093-9
	GHS/CLP: Skin Sens. 1B: H317

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

For full text of H-statements: 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 contactRinse 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 Do not induce vomiting.

Consult a doctor immediately.

Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Forward this sheet to the 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.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

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.

Cool containers at risk with water spray jet.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Some risk of slipping due to 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 containment and cleaning up

Take up with absorbent material (e.g. oil binder).

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special measures necessary if used correctly.

Use only in well-ventilated areas. Use solvent-resistant equipment.

The product is combustible.

Do not eat, drink or smoke when using this product.

After worktime and before work breaks the affected skin areas must be thoroughly cleaned.

Use barrier skin cream.

Contaminated work clothing should not be allowed out of the workplace.

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, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store together with oxidizing agents.

Keep container in a well-ventilated place.

Keep container tightly closed.

7.3 Specific end use(s)

See product use, SECTION 1.2



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SECTION 8: Exposure controls / personal protection

Substance

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

not applicable

DNEL

Cubotano	
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1	
Industrial, inhalative, Long-term - local effects: 5.6 mg/m³ 5.6 mg/m³.	
Industrial, dermal, Long-term - systemic effects: 1 mg/kg bw/day 5.6 mg/m³.	
Industrial, inhalative, Long-term - systemic effects: 2.7 mg/m³.	
general population, oral, Long-term - systemic effects: 0.74 mg/kg bw/day 5.6 mg/m³.	
Calciumsulfonate, petroleum, CAS: 61789-86-4	
Industrial, dermal, Long-term - systemic effects: 3,33 mg/kg bw/d.	
Industrial, inhalative, Long-term - systemic effects: 11,75 mg/m³.	
general population, inhalative, Long-term - systemic effects: 2,9 mg/m³.	
general population, oral, Long-term - systemic effects: 0,8333 mg/kg bw/d.	
general population, dermal, Long-term - systemic effects: 1,667 mg/kg bw/d.	

PNEC

Substance	
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1	
oral (food), 9,33 mg/kg.	
Calciumsulfonate, petroleum, CAS: 61789-86-4	
oral (food), 16 667 mg/kg food.	
soil, 271 000 000 mg/kg dw.	
sediment (seawater), 226 000 000 mg/kg dw.	
sediment (freshwater), 226 000 000 mg/kg dw.	
sewage treatment plants (STP), 1000 mg/l (AF=10).	
seawater, 1 mg/l (AF=10000).	
freshwater, 1 mg/l (AF=1000).	

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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 Safety glasses. (EN 166:2001)

Hand protection The details concerned are recommendations. Please contact the glove supplier for further

information

> 0,4 mm: Nitrile rubber, >120 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.

Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin.

Respiratory protectionBreathing 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

9.1 Information on basic physical and chemical properties

Form liauid Color light brown Odor characteristic **Odour threshold** not determined pH-value not applicable pH-value [1%] not applicable Boiling point [°C] not applicable Flash point [°C] 208 °C/ 406°F Flammability (solid, gas) [°C] Not explosive. Lower explosion limit not self-igniting Upper explosion limit not applicable

Oxidising properties no

Vapour pressure/gas pressure [kPa] not determined

Density [g/ml] 0,85 (DIN 51757) (15 °C / 59,0 °F)

 Bulk density [kg/m³]
 not applicable

 Solubility in water
 immiscible

 Partition coefficient [n-octanol/water]
 not determined

Viscosity > 20 mm²/s 40°C [104°F] (DIN 51562)

Relative vapour density determined

in air

not determined

Evaporation speednot determinedMelting point [°C]not determinedAutoignition temperature [°C]not applicableDecomposition temperature [°C]not determined

9.2 Other information

No information available.



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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. Reactions with strong alkalies. Reactions with strong acids.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Strong oxidizing agent. See SECTION 10.3.

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

Substance

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).

Calciumsulfonate, petroleum, CAS: 61789-86-4

dermal, > 10% Skin. Sen. 1B - H317.

LD50, oral, > 5000 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 Toxicological data of complete product are not available.

May produce an allergic reaction.

No classification. 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.

MutagenicityBased on the available information, the classification criteria are not fulfilled.Reproduction toxicityBased on the available information, the classification criteria are not fulfilled.CarcinogenicityBased on the available information, the classification criteria are not fulfilled.Aspiration hazardBased 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	
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts, CAS: 85940-28-9	
LC50, (96h), fish: 5 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, (72h), Pseudokirchneriella subcapitata: >100 mg/l (OECD).	
NOEL, (21d), Daphnia magna: 10 mg/l (OECD).	
Calciumsulfonate, petroleum, CAS: 61789-86-4	
LL50, (96h), fish: > 10 000 mg/l.	

12.2 Persistence and degradability

Behaviour in environment

compartments

not determined

Behaviour in sewage plant not determined Biological degradability not determined

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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.

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!

Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended) 130208*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

150110* Waste no. (recommended)

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 not applicable

IMDG

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to

NO DANGEROUS GOODS

ADR/RID

Inland navigation (ADN) NO DANGEROUS GOODS

IMDG

Marine transport in accordance with NOT CLASSIFIED AS "DANGEROUS GOODS"

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

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

not applicable

ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with

not applicable

IMDG

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 no

IMDG

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable

SECTION 15: Regulatory information

15.1 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)

not applicable

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

for people employment restrictions for young people.

15.2 Chemical safety assessment

- VOC (2010/75/CE)

Chemical safety assessments for substances in this mixture were not carried out.



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SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H304 May be fatal if swallowed and enters airways.

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 Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

Modified position none