High-performance oil for Haldex coupling Article number 101171



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.04.2024, Revision 15.04.2024

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

1.1 Product identifier

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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.

1.3 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
Safety Data Sheet info@febi.com

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

No classification.

2.2 Label elements

The product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200 $\,$

(HCS 2012)

Hazard pictograms None
Signal word None
Hazard statements None
Precautionary statements None

Special labelling EUH210 Safety data sheet available on request.

2.3 Other hazards

Environmental hazards Does not contain any PBT or vPvB substances.

Other hazards No particular hazards known.

This product is classified as non-hazardous in accordance to OSHA Standard 29 CFR

1910.1200.

SECTION 3: Composition / Information on ingredients

3.1 Substances

Not applicable

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3.2 Mixtures

The product is a mixture.

Range [%]	Substance
50 - < 100	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based
	CAS: 72623-87-1
1 - < 2,5	Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts
	CAS: 85940-28-9
0,1 - <1	Sulfonic acids, petroleum, calcium salts
	CAS: 61789-86-4

Comment on component parts For full text of H-statements: see SECTION 16.

Contains less than 3% w/w DMSO-extract (only for mineral oils)

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 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

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (US)

Substance

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

general population, oral, Long-term - systemic effects, 0,833 mg/kg bw/day

CAS: 72623-87-1

Long-term exposure: 5 mg/m³, ACGIH, TWA, Oil mist

DNEL

Substance		
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts, CAS: 85940-28-9		
Industrial, inhalative, Long-term - systemic effects, 6,6 mg/m³		
Industrial, dermal, Long-term - systemic effects, 9,6 mg/kg bw/d		
general population, inhalative, Long-term - systemic effects, 1,67 mg/m³		
general population, dermal, Long-term - systemic effects, 4,8 mg/kg bw/d		
general population, oral, Long-term - systemic effects, 0,19 mg/kg bw/d		
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1		
Industrial, inhalative, Long-term - systemic effects, 2.73 mg/m³		
Industrial, inhalative, Long-term - local effects, 5.58 mg/m³		
Industrial, dermal, Long-term - systemic effects, 970 μg/kg bw/day		
general population, inhalative, Long-term - local effects, 1.19 mg/m³		
general population, inhalative, Long-term - systemic effects, 740 μg/kg bw/day		
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4		
Industrial, inhalative, Long-term - systemic effects, 11,75 mg/m³		
Industrial, dermal, Long-term - systemic effects, 3,33 mg/kg bw/day		
Industrial, dermal, Long-term - local effects, 1,03 mg/cm ²		
general population, inhalative, Long-term - systemic effects, 2,9 mg/m³		
general population, dermal, Long-term - systemic effects, 1,667 mg/kg bw/day		
general population, dermal, Long-term - local effects, 0,513 mg/cm ²		

PNEC

Substance		
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts, CAS: 85940-28-9		
freshwater, 0,002 mg/l (AF=1000)		
seawater, 0,0002 mg/l (AF=10000)		
sewage treatment plants (STP), 100 mg/l (AF=100)		
sediment (freshwater), 19,3 mg/kg dw		
sediment (seawater), 1,93 mg/kg dw		
soil, 15,7 mg/kg dw		
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1		
oral (food), 9.33 mg/kg food		
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4		
freshwater, 1 mg/L		
seawater, 1 mg/L		
sewage treatment plants (STP), 1000 mg/L		
sediment (freshwater), 226 000 000 mg/kg sediment dw		
sediment (seawater), 226 000 000 mg/kg sediment dw		

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soil, 271 000 000 mg/kg soil dw

oral (food), 16,667 mg/kg food

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 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/vapors/aerosols. 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

Information on basic physical and chemical properties

Physical state Liquid **Form** Liquid Color light brown Odor characteristic **Odor threshold** Not determined pH-value Not applicable Not applicable pH-value [1%] Boiling point or initial boiling point

and boiling range [°C]

Not applicable

Flash point [°C] 208 °C/ 406°F Flammability Not explosive. not self-igniting Lower explosion limit Upper explosion limit Not applicable

Oxidizing properties No

Vapor pressure/gas pressure [kPa] Not determined

Density [g/cm³] 0,85 (DIN 51757) (15 °C / 59,0 °F)

Relative density Not determined Bulk density [kg/m³] Not applicable Solubility in water immiscible

Solubility other solvents No information available.

Partition coefficient n-octanol/water

(log value)

Not determined

29,94 mm²/s 40°C [104°F] (DIN 51562) Kinematic viscosity

Relative vapour density Not determined Melting point [°C] Not determined Auto-ignition temperature [°C] Not applicable Decomposition temperature [°C] Not determined Particle characteristics Not applicable

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. Reactions with strong alkalies. Reactions with strong acids.

10.4 Conditions to avoid

Strong heating.

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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 oral toxicity

Product

oral, Based on the information available, the classification criteria have not been 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

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1

LD50, oral, Rat, 5000 mg/kg bw

Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4

LD50, oral, Rat, > 5000 mg/kg, OECD 401

Acute dermal toxicity

Product

dermal, Based on the information available, the classification criteria have not been 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, > 20 000 mg/kg bw

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1

LD50, dermal, Rabbit, 2000 - 5000 mg/kg bw

Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4

LD50, dermal, Rabbit, > 4000 mg/kg, OECD 402

Acute inhalational toxicity

Product

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

Substance

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

LC50, inhalativ (vapor), Rat, > 2,3 mg/L/4h

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1

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

Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4

LC50, inhalative, Rat, > 1,9 mg/L (4h)

Serious eye damage/irritation

Toxicological data of complete product are not available.

Non-irritant.

No classification due to substance-specific concentration limits.

Substance

Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4

Eye, non-irritating

Skin corrosion/irritation

Based on the information available, the classification criteria have not been fulfilled.

Substance

Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4

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dermal, non-irritating

Respiratory or skin sensitisation

Toxicological data of complete product are not available. No classification due to substance-specific concentration limits.

Substance

Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4

dermal, sensitising

Specific target organ toxicity — single exposure

Based on the information available, the classification criteria have not been fulfilled.

Substance

Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4

inhalative, no adverse effect observed

Specific target organ toxicity — repeated exposure

Based on the information available, the classification criteria have not been fulfilled.

Substance

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1

NOAEL, dermal, Rat, 30 - 2000 mg/kg bw/day

NOAEC, inhalative, Rat, 980 mg/m³ air

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

Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4

NOAEL, oral, Rat, 500 mg/kg bw/day, The effects observed are not sufficient for classification.

NOAEL, dermal, Rat, 1000 mg/kg bw/day, no adverse effect observed

NOAEC, inhalative, Rat, 881,58 mg/m³, The effects observed are not sufficient for classification.

Mutagenicity

Reproduction toxicity

Carcinogenicity

Aspiration hazard

General remarks

Based on the information available, the classification criteria have not been fulfilled.

Based on the information available, the classification criteria have not been fulfilled.

Based on the information available, the classification criteria have not been fulfilled.

Based on the information available, the classification criteria have not been fulfilled.

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

Product

Based on the information available, the classification criteria have not been fulfilled.

Substance

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

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

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1

NOELR, (14d), fish, 1 g/L

LL50, (4d), Invertebrates, 10 g/L

LL50, (4d), fish, 100 mg/L

Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4

LC50, (96h), fish, > 10 mg/l (OECD 203)

EC50, (3h), Activated sludge, > 10 mg/l (OECD 209)

12.2 Persistence and degradability

Behaviour in environment

compartments

Not determined

Behaviour in sewage plant Not determined
Biological degradability Not determined

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

The mixture contains the following substances with endocrine disrupting potential.: Branched alkyl phenol

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.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

In according to RoHS!

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

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

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

RCRA Hazard Class (40CFR 261)

Waste must be disposed of in accordance with federal, state and local environmental control

regulations. Consult your local or regional authorities.

SECTION 14: Transport

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

DOT Road Shipment Information (49 Not applicable

CFR)

14.2 UN proper shipping name

Transport by land according to

ADR/RID

NO DANGEROUS GOODS

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"

DOT Road Shipment Information (49 Not applicable

CFR)

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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**

Air transport in accordance with IATA Not applicable

DOT Road Shipment Information (49 Not applicable CFR)

14.4 Packing group

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

DOT Road Shipment Information (49 Not applicable

CFR)

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

DOT Road Shipment Information (49 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

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

US Regulations

National regulations 29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA,

TSCA, California - Prop. 65

SARA, 302 No information available.
 SARA, 311 No information available.
 SARA, 313 No information available.

- TSCA All chemical substances in this material are included on or exempted from listing on the TSCA

Inventory.

- FDA No information available.

American Conference of Does not contain any relevant substances fulfilling the classification criteria.

Governmental Industrial Hygienists -

ACGIH

International Agency for Research on Does not contain any relevant substances fulfilling the classification criteria.

Cancer IARC

National Toxicology Program - NTP Does not contain any relevant substances fulfilling the classification criteria.

HAP-VOC Not applicable

Transport-regulations DOT-Classification, ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)

15.2 Chemical safety assessment

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

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SECTION 16: Other information

16.1 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists;

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;

CAS = Chemical Abstracts Service;

CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;

CFR = Code of Federal Regulations;

CPR = Controlled Products Regulations;

DMEL = Derived Minimum Effect Level;

DNEL = Derived No Effect Level;

DOT = Department of Transportation;

EC50 = Median effective concentration;

EPA = Environmental Protection Agency;

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;

IARC = International Agency of Research on Cancer;

IATA = International Air Transport Association;

TSCA = Toxic Substance Control Act;

HMIS = Hazardous Materials Identification System;

NFPA = National Fire Protection Association;

NIOSH = National Institute for Occupational Safety and Health;

OSHA = Occupational Safety and Health Administration;

LC50 = Lethal concentration, 50%;

LD50 = Median lethal dose, 50%;

MARPOL = International Convention for the Prevention of Marine Pollution from Ships;

PBT = Persistent, Bioaccumulative and Toxic substance;

PNEC = Predicted No-Effect Concentration;

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals;

SARA = Superfund Amendments and Reauthorization Act;

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 Ratings

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NFPA Ratings



TOP, FLAMMABILITY: 1 - Slight Hazard LEFT, HEALTH: 0 - Minimal Hazard RIGHT, REACTIVITY: 1 - Slight Hazard BOTTOM, SPECIAL NOTICE: -

HMIS Ratings



- 1 Slight Hazard
- 1 Slight Hazard
- 1 Slight Hazard
- X Personal protection rating to be supplied by user depending on use conditions

PERSONAL PROTECTION:

- A Safety Glasses
- B Safety Glasses and Gloves
- C Safety Glasses, Gloves and Protection Apron
- D Face Shield, Gloves and Protection Apron
- E Safety Glasses, Gloves and Dust Respirator
- F Safety Glasses, Gloves, Protection Apron and Dust Respirator
- G Safety Glasses, Gloves and Vapor Respirator.
- H Splash Goggles, Gloves, Protection Apron and Vapor Respirator.
- I Safety Glasses, Gloves, Dust Respirator and Vapor Respirator.
- J Splash Goggles, Gloves, Protection Apron, Dust Respirator and Vapor Respirator.
- K Airline Mask or Hood, Gloves, Full Suit and Boots.
- X Personal protection rating to be supplied by user depending on use conditions

Modified position

3.2, 8.1, 9.1, 15.1, 16.2, 16.3