hydraulic fluid Article number 06161



Ferdinand Bilstein GmbH + Co. KG

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

1.1 Product identifier

hydraulic fluid

Article number: 06161

1.2 Relevant identified uses of the substance or mixture and uses advised against

1 2 1 Relevant uses

Hydraulics oil

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

Acute Tox. 4: H332 Harmful if inhaled.

Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Hazard pictograms

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

(HCS 2012)

!



Signal word DANGER

Contains: 1-Decene, Dimer, hydrogenated, CAS: 68649-11-6

Hazard statements H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways. H412 Harmful to aquatic life with long lasting effects.

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

P102 Keep out of reach of children.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P312 Call a POISON CENTER/doctor if you feel unwell.

P331 Do NOT induce vomiting.

P405 Store locked up.

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: Methyl methacrylate. EUH208 May produce an allergic reaction.

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2.3 Other hazards

Physico-chemical hazards No particular hazards known.

Human health dangers Frequent persistent contact with the skin can cause skin irritation.

If swallowed or in the event of vomiting, risk of product entering the lungs.

Environmental hazards Does not contain any PBT or vPvB substances.

Contains no ingredients with endocrine-disrupting properties.

Other hazards Further hazards were not determined with the current level of knowledge.

This product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200.

SECTION 3: Composition / Information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
50 - < 99	1-Decene, Dimer, hydrogenated
	CAS: 68649-11-6
10 - < 20	Distillates (petroleum), hydrotreated light naphthenic
	CAS: 64742-53-6
1 - < 10	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based
	CAS: 72623-87-1
1 - < 10	Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0,03% aromatics
	CAS: 1174522-45-2
0,25 - < 1	2,6-di-tert-butyl-p-cresol
	CAS: 128-37-0
0,1 - < 1	Methyl methacrylate
·	CAS: 80-62-6

Comment on component parts

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 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.

Rinse out mouth and give plenty of water to drink.

Get medical advice.

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

If swallowed or in the event of vomiting, risk of product entering the lungs.

Treat symptomatically.

Forward this sheet to the doctor.

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SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media Foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not

Full water jet

be used

5.2 Special hazards arising from the substance or mixture

Not combusted hydrocarbons.

Risk of formation of toxic pyrolysis products.

Carbon monoxide (CO)

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Do not inhale explosion and/or combustion gases.

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

SECTION 6: Accidental release measures

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.

Methods and material for containment and cleaning up 6.3

Take up with absorbent material (e.g. general-purpose binder).

Dispose of absorbed material in accordance within the regulations.

Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

Precautions for safe handling

Avoid formation of aerosols.

Use only in well-ventilated areas.

The product is combustible.

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

Use barrier skin cream.

Wash face and/or hands before break and end of work.

Cloths contaminated with product should not be kept in trouser pockets.

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

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store together with food and animal food/diet.

Do not store together with oxidizing agents.

Keep container tightly closed.

Keep container in a well-ventilated place.

Protect from heat/overheating.

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7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls/personal protection

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8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (US)

Substance

Distillates (petroleum), hydrotreated light naphthenic

CAS: 64742-53-6

Long-term exposure: 5 mg/m³, ACGIH, TWA, Oil mist, mineral (inhalable fraction)

2,6-di-tert-butyl-p-cresol

CAS: 128-37-0

Long-term exposure: 2 mg/m³, ACGIH, A4 (i, h)

DNEL

Substance
Distillates (petroleum), hydrotreated light naphthenic, CAS: 64742-53-6
Industrial, inhalative, Long-term - local effects, 5,4 mg/m³
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0,03% aromatics, CAS: 1174522-45-2
There are no DNEL values established for the substance.
1-Decene, Dimer, hydrogenated, CAS: 68649-11-6
Industrial, inhalative, Acute - systemic effects, 60 mg/m³
general population, inhalative, Acute - systemic effects, 50 mg/m³
Methyl methacrylate, CAS: 80-62-6
Industrial, inhalative, Long-term - systemic effects, 348,4 mg/m³
Industrial, inhalative, Long-term - local effects, 208 mg/m³
Industrial, inhalative, Acute - local effects, 416 mg/m³
Industrial, dermal, Long-term - systemic effects, 13,67 mg/kg bw/day
Industrial, dermal, Long-term - local effects, 1,5 mg/cm²
general population, inhalative, Long-term - systemic effects, 74,3 mg/m³
general population, inhalative, Long-term - local effects, 104 mg/m³
general population, dermal, Long-term - systemic effects, 8,2 mg/kg bw/day
general population, dermal, Long-term - local effects, 1,5 mg/cm ²
general population, oral, Long-term - systemic effects, 8,2 mg/kg bw/day
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
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
Industrial, inhalative, Long-term - systemic effects, 5,8 mg/m³
Industrial, dermal, Long-term - systemic effects, 8,3 mg/kg
general population, dermal, Long-term - systemic effects, 5 mg/kg
general population, inhalative, Long-term - systemic effects, 1,74 mg/m³

PNEC

Substance	
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0,03% aromatics, CAS: 1174522-45-2	
There are no PNEC values established for the substance.	
Methyl methacrylate, CAS: 80-62-6	

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sediment (seawater), 1,02 mg/kg sediment dw
soil, 1,48 mg/kg soil dw
freshwater, 0.94 mg/L
seawater, 0,094 mg/L
sewage treatment plants (STP), 10 mg/L
sediment (freshwater), 10,2 mg/kg sediment dw
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
oral (food), 9.33 mg/kg food
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
soil, 1,04 mg/kg
sediment (freshwater), 1,29 mg/kg
oral (food), 16,7 mg/kg
freshwater, 0,004 mg/l
seawater, 0,0004 mg/l
sewage treatment plants (STP), 100 mg/l

8.2 Exposure controls

General limit for oil mist should be noted.

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. (EN 166:2001)

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

nformation

> 0,4 mm; Nitrile rubber, >480 min (EN 374-1/-2/-3).

> 0,4 mm; Neoprene, >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 Non

Delimitation and monitoring of the

environmental exposition

See SECTION 6+7.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical stateLiquidFormLiquidColorgreenOdorcharacteristicOdor thresholdNot applicablepH-valueNot applicablepH-value [1%]Not applicable

Boiling point or initial boiling point

and boiling range [°C]

No information available.

Flash point [°C]

Flammability No information available.

Lower explosion limit No information available.

Upper explosion limit No information available.

Oxidizing properties No

Vapor pressure/gas pressure [kPa] No information available.

Density [g/cm³] 0,83

Relative density

Bulk density [kg/m³]

Not applicable

Solubility in water

Not immiscible

Solubility other solvents No information available.

Partition coefficient n-octanol/water No information available.

(log value)

Kinematic viscosity

Relative vapour density

Melting point [°C]

Auto-ignition temperature [°C]

No information available.

No information available.

No information available.

No information available.

Particle characteristics No information available.

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

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents. Reactions with strong acids and alkalies.

10.4 Conditions to avoid

See SECTION 7.2. Strong heating.

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10.5 Incompatible materials

Strong basic compounds strong acids
Oxidizing agent

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

Distillates (petroleum), hydrotreated light naphthenic, CAS: 64742-53-6

LD50, oral, Rat, > 5000 mg/kg bw

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0,03% aromatics, CAS: 1174522-45-2

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

1-Decene, Dimer, hydrogenated, CAS: 68649-11-6

LD50, oral, Rat, > 5000 mg/l

Methyl methacrylate, CAS: 80-62-6

LD50, oral, Rat, 7900 mg/kg

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

LD50, oral, Rat, 5000 mg/kg bw

2,6-di-tert-butyl-p-cresol, CAS: 128-37-0

LD50, oral, Rat, > 5000 mg/kg bw (OECD 401)

NOEL, oral, Rat, 25 mg/kg/28d

Acute dermal toxicity

Product

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

Substance

Distillates (petroleum), hydrotreated light naphthenic, CAS: 64742-53-6

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

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0,03% aromatics, CAS: 1174522-45-2

LD50, dermal, Rabbit, 3160 mg/kg bw

1-Decene, Dimer, hydrogenated, CAS: 68649-11-6

LD50, dermal, Rabbit, > 3000 mg/l

Methyl methacrylate, CAS: 80-62-6

LD50, dermal, Rabbit, > 5000 mg/kg

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

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

2,6-di-tert-butyl-p-cresol, CAS: 128-37-0

LD50, dermal, Rat, > 5000 mg/kg bw (OECD 402)

Acute inhalational toxicity

Product

ATE-mix, inhalativ (mist), 3,07 mg/l/4h

ATE-mix, inhalativ (vapor), 241,23 mg/l/4h

Substance

Distillates (petroleum), hydrotreated light naphthenic, CAS: 64742-53-6

LC50, inhalative, Rat, > 5,53 mg/l/4h (dust/mist)

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Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0,03% aromatics, CAS: 1174522-45-2
LC50, inhalative, Rat, >5.266 mg/L
1-Decene, Dimer, hydrogenated, CAS: 68649-11-6
LC50, inhalative, Rat, >1,81 mg/l 4h
Methyl methacrylate, CAS: 80-62-6
LC50, inhalative, Rat, 29,8 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

Serious eye damage/irritation Based on the information available, the classification criteria have not been fulfilled.

Substance

Methyl methacrylate, CAS: 80-62-6

Eye, non-irritating

Skin corrosion/irritation Based on the information available, the classification criteria have not been fulfilled.

Substance

Methyl methacrylate, CAS: 80-62-6

dermal, irritant

Respiratory or skin sensitisation May produce an allergic reaction.

Calculation method

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

Substance Methyl methacrylate, CAS: 80-62-6

dermal, sensitising

inhalative, non-sensitizing

Specific target organ toxicity — Based on the information available, the classification criteria have not been fulfilled. single exposure

Specific target organ toxicity repeated exposure

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

Substance Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0,03% aromatics, CAS: 1174522-45-2 NOAEL, oral, Rat, 5000 mg/kg bw/day NOAEC, inhalative, Rat, 10.4 mg/L air Methyl methacrylate, CAS: 80-62-6 NOAEL, oral, Rat, 124 mg/kg bw/day NOAEC, inhalative, Rat, 104 mg/m³ 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

Mutagenicity

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

Substance
Methyl methacrylate, CAS: 80-62-6
in vitro, negativ
in vivo, negativ

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Reproduction toxicity

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

- Fertility

No information available.

- Development

Substance

Methyl methacrylate, CAS: 80-62-6

NOAEL, oral, Rabbit, 450 mg/kg bw/day

NOAEC, inhalative, Rat, 8300 mg/m³

Carcinogenicity

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

Substance

Methyl methacrylate, CAS: 80-62-6

NOAEL, oral, Rat, 90,3 mg/kg bw/day

NOAEC, inhalative, Rat, 2050 mg/m³

Aspiration hazard

Based on the information available, the classification criteria have been 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. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

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SECTION 12: Ecological information

12.1 Toxicity

Substance		
Distillates (petroleum), hydrotreated light naphthenic, CAS: 64742-53-6		
LC50, (96h), fish, > 100 mg/l		
IC50, (48h), Algae, > 100 mg/l		
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0,03% aromatics, CAS: 1174522-45-2		
EC50, (72h), Algae, 10 g/L		
NOELR, (21d), Invertebrates, 1 g/L		
NOELR, (28d), fish, 1 g/L		
LL50, (48h), Invertebrates, 3.193 g/L		
LC100, (96h), fish, 1.028 g/L		
1-Decene, Dimer, hydrogenated, CAS: 68649-11-6		
EC50, (48h), Daphnia magna, > 1000 mg/l		
EL50, (72h), Algae, >1000 mg/l		
NOELR, (21d), Daphnia magna, 125 mg/l		
LL50, (96h), Oncorhynchus mykiss, >1000 mg/l		
Methyl methacrylate, CAS: 80-62-6		
LC50, (96h), Oncorhynchus mykiss, > 79 mg/l OECD 203		
EC50, (48h), Daphnia magna, 69 mg/l OECD 202		
EC50, (72h), Selenastrum capricornutum, > 110 mg/l OECD 201		
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		
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0		
LC50, (96h), Danio rerio, > 0,57 mg/l		
EC50, (48h), Daphnia magna, > 0,17 mg/l		
IC50, (72h), Desmodesmus subspicatus, > 0,42 mg/l		
NOEC, (21d), Daphnia magna, > 0,39 mg/l		

12.2 Persistence and degradability

Not determined Behaviour in environment

compartments

Not determined

Behaviour in sewage plant **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.

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12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Ecological data of complete product are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

In according to RoHS!

Coordinate disposal with the disposal contractor/authorities if necessary.

Dispose of as hazardous waste.

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.

Not applicable

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** No information available.

Governmental Industrial Hygienists -

ACGIH

International Agency for Research on No information available.

Cancer IARC

National Toxicology Program - NTP No information available. **HAP-VOC** No information available.

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

15.2 Chemical safety assessment

Not applicable

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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

hydraulic fluid Article number 06161



Ferdinand Bilstein GmbH + Co. KG

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NFPA Ratings



TOP, FLAMMABILITY: 1 - Slight Hazard LEFT, HEALTH: 2 - Moderate Hazard RIGHT, REACTIVITY: 1 - Slight Hazard BOTTOM, SPECIAL NOTICE:

HMIS Ratings



- 2 Moderate 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

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