Gear oil (DCTF-G) Article number 171871, 194483, 196735



#### 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

Gear oil (DCTF-G)

Article number: 171871, 194483, 196735

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

#### 1.2.1 Relevant uses

Gearbox 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

No classification.

# 2.2 Label elements

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

(HCS 2024)

Hazard pictogramsNoneSignal wordNoneHazard statementsNonePrecautionary statementsNone

**Special labelling** EUH210 Safety data sheet available on request.

# 2.3 Other hazards

Physico-chemical hazards Combustible.

**Environmental hazards** Does not contain any PBT or vPvB substances.

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

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

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

Mixture containing mineral oil. Mineral oil with <3% DMSO extract according to IP 346.

#### **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

**General information** Take off contaminated clothing and wash before reuse.

**Inhalation** Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

**Skin contact** When in contact with the skin, clean 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** Seek medical advice immediately.

Do not induce vomiting.

#### 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.

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

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

oe used

Full water jet.

#### 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

## 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.

#### **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.

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#### 6.4 Reference to other sections

See SECTION 8+13

# **SECTION 7: Handling and storage**

## 7.1 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.

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

Use barrier skin cream.

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.

Keep container in a well-ventilated place.

Keep container tightly closed.

## 7.3 Specific end use(s)

See product use, SECTION 1.2

# **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

CAS: 72623-87-1

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

#### **DNEL**

Substance

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/m<sup>3</sup>

Industrial, dermal, Long-term - systemic effects, 970 µg/kg bw/day

general population, oral, Long-term - systemic effects, 0.74mg/kg bw/day

## **PNEC**

Substance

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

oral (food), 9.33 mg/kg food

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#### 8.2 Exposure controls

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.

> 0,4mm: Nitrile 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.

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-P2.

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

Physical stateLiquidFormLiquidColoramber colourOdorcharacteristic

Odor threshold No information available.

pH-valuepH-value [1%]Boiling point or initial boiling pointNot applicableNot applicable

and boiling range [°C]

Flash point [°C] > 200

Flammability Not explosive.

Lower explosion limit Not applicable

Upper explosion limit Not applicable

Oxidizing properties No

Vapor pressure/gas pressure [kPa] Not determined

**Density [g/cm³]** 0.84 - 0.85 (15 °C / 59,0 °F)

Relative density

Bulk density [kg/m³]

Solubility in water

Solubility other solvents

Partition coefficient n-octanol/water

Not determined

Not applicable

virtually insoluble

No information available.

(log value)

Kinematic viscosity> 24 mm²/s 40°CRelative vapour densityNo information available.Melting point [°C]No information available.

Auto-ignition temperature [°C] Not applicable

**Decomposition temperature [°C]**No information available.

Particle characteristics Not applicable

# 9.2 Other information

None

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# **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

No hazardous reactions known.

## 10.4 Conditions to avoid

No special measures necessary.

## 10.5 Incompatible materials

Strong oxidizing agent. strong acids

## 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

ATE-mix, oral, > 5000 mg/kg bw

Substance

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

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

#### Acute dermal toxicity

Substance

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

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

#### Acute inhalational toxicity

Substance

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

LC50, inhalative, Rat, > 5 mg/L, 4h

Serious eye damage/irritation 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

Eye, non-irritating

Skin corrosion/irritation 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

dermal, non-irritating

Respiratory or skin sensitisation 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

dermal, non-sensitizing

Specific target organ toxicity — Based on the information available

single exposure

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

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

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

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

in vitro, negativ

# Reproduction toxicity

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

- Fertility

Substance

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

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NOAEL, oral, Rat, 1000 mg/kg bw/day

- **Development** No information available.

**Carcinogenicity**Based on the information available, the classification criteria have not been fulfilled. **Aspiration hazard**Based on the information available, the classification criteria have not 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.

## **SECTION 12: Ecological information**

Product

## 12.1 Toxicity

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

EL50, (48h), Invertebrates, > 10000 mg/L

LL50, (4d), Fish, > 100 mg/L

## 12.2 Persistence and degradability

Does not contain any relevant substances fulfilling the classification criteria.

Behaviour in environment

compartments

Not determined

Behaviour in sewage plant Not determined Biological degradability Not determined

Substance

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

(28d), 1 - 4 %, OECD 301 B, 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 Endocrine disrupting properties

Does not contain any relevant substances fulfilling the classification criteria.

## 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.

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

**Product** 

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

In according to RoHS!

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"

CFR)

DOT Road Shipment Information (49 NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to

Not applicable

ADR/RID

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)

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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

DOT Road Shipment Information (49 Not applicable

CFR)

#### 14.5 Environmental hazards

Inland navigation (ADN)

Transport by land according to ADR/RID

No

No

Marine transport in accordance with

**IMDG** 

Air transport in accordance with IATA No

DOT Road Shipment Information (49 No

CFR)

## 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

## **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** 

Governmental Industrial Hygienists -

**ACGIH** 

No information available.

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 (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025)

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#### 15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

## **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: 1 - Slight 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** 

8.1, 9.1, 11.2, 12.6, 15.1, 16.3