

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878



GREASE FT4 F.FLEX.SHAFTS

Product number 157

Version: 4.0
Replaces version: 3.1

Revision date: 21.2.2023
Date of print: 14.3.2023

Page: 1 of 10
Language: en-DE,AT,GB

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

1.1 Product identifier

Trade name: GREASE FT4 F.FLEX.SHAFTS

This safety data sheet pertains to the following products:
86396010 = GREASE FT4 F.FLEX.SHAFTS

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

General use: Lubricating grease.
For industrial purposes only

1.3 Details of the supplier of the safety data sheet

Company name: August Rüggeberg GmbH & Co. KG
PFERD-Werkzeuge
Street/POB-No.: Hauptstraße 13
Postal Code, city: DE-51709 Marienheide
WWW: www.pferd.com
E-mail: info@pferd.com
Telephone: +49 (0)2264-9-0
Telefax: +49 (0)2264-9-400

Department responsible for information:
Telephone: +49 (0) 2264-9-0

1.4 Emergency telephone number

Germany: 0800-181-5313
Austria: 0800-802278
France: 0805-089352
Italy: 800-794-834
Bulgaria: 359-32571722
Poland: +48-223073296
Sweden: 020-889-215
Greece: 30-2111981153
Other EU-Countries: 1-813-248-0585

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

This mixture is classified as not hazardous.

2.2 Label elements

Labelling (CLP)

Hazard statements: not applicable

Precautionary statements: not applicable

Special labelling

EUH210 Safety data sheet available on request.

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2.3 Other hazards

No risks worthy of mention.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

The product does not contain any as PBT or vPvB classified substances.

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Mineral oil, Lithium-soap

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119484627-25-xxxx EC No. 265-157-1 CAS 64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic not classified	50 - 70 %
EC No. 265-155-0 CAS 64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic not classified	20 - 30 %
REACH 01-2119978241-36-xxxx list no. 939-603-7 CAS 1471316-72-9	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts with TBN <300 Skin Sens. 1B; H317.	< 1 %

Full text of H- and EUH-statements: see section 16.

Additional information: The highly refined mineral oil contains <3% (w/w) DMSO extract, according to IP346.

SECTION 4: First aid measures

4.1 Description of first aid measures

- In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.
- Following skin contact: Remove residues with soap and water. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.
- After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.
- After swallowing: Rinse mouth. Never give anything by mouth to an unconscious person. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray jet, foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

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5.2 Special hazards arising from the substance or mixture

May form dangerous gases and vapours in case of fire.
Furthermore, there may develop: metallic oxides, carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus. Use personal protection equipment. Inhaling hazardous decomposing products can cause serious health damage.

Additional information:

Hazchem-Code: -
Usual measures for fire prevention.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid generation of dust. Do not breathe dust. Provide adequate ventilation. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

6.2 Environmental precautions

Do not allow to come into the canalization/surface waters/ground water . If necessary notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed. Do not breathe dust. Wear appropriate protective equipment.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Take off contaminated clothing and wash it before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Store container tightly closed in a dry and cool place.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.

Storage class:

11 = Combustible solids

7.3 Specific end use(s)

No information available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

Type	Limit value
Austria: MAK Kurzzeit-Mittelwert	10 mg/m ³ (Dust limit value, respirable fraction)
Austria: MAK Kurzzeit-Mittelwert	20 mg/m ³ (Dust limit value, inhalable fraction)
Austria: MAK Langzeit-Mittelwert	10 mg/m ³ (Dust limit value, inhalable fraction)
Austria: MAK Langzeit-Mittelwert	5 mg/m ³ (Dust limit value, respirable fraction)
Germany: DFG Kurzzeit	2,4 mg/m ³ (Dust limit value, respirable fraction)
Germany: DFG Langzeit	0,3 mg/m ³ (Dust limit value, respirable fraction)
Germany: DFG Langzeit	4 mg/m ³ (Dust limit value, inhalable fraction)
Germany: TRGS 900 Kurzzeit	2,5 mg/m ³ (Dust limit value, respirable fraction)
Germany: TRGS 900 Kurzzeit	20 mg/m ³ (Dust limit value, inhalable fraction)
Germany: TRGS 900 Langzeit	1,25 mg/m ³ (Dust limit value, respirable fraction)
Germany: TRGS 900 Langzeit	10 mg/m ³ (Dust limit value, inhalable fraction)
Great Britain: WEL-TWA	10 mg/m ³ (Dust limit value, inhalable fraction)
Great Britain: WEL-TWA	4 mg/m ³ (Dust limit value, respirable fraction)

DNEL/DMEL: Information about Distillates (petroleum), hydrotreated heavy paraffinic:
DNEL long-term, workers, inhalative, local: 5,6 mg/m³
Information about Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts with TBN <300:
DNEL long-term, workers, inhalative, systemic: 35,26 mg/m³
DNEL long-term workers, dermal systemic: 25 mg/kg

PNEC: Information about Distillates (petroleum), hydrotreated heavy paraffinic:
PNEC oral: 9,33 mg/kg
Information about Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts with TBN <300:
PNEC water (freshwater): 0,1 mg/L
PNEC water (marine water): 0,1 mg/L
PNEC sediment (freshwater): 45.211 mg/kg
PNEC sediment (marine water): 45.211 mg/kg
PNEC soil: 36.739 mg/kg
PNEC sewage treatment plant: 1.000 mg/L

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

Personal protection equipment

Occupational exposure controls

Respiratory protection: In case of dust formation: Particulates filter P1 according to EN 143.

Hand protection: Protective gloves according to EN 374.
Glove material: Nitrile rubber
Breakthrough time: >10 min
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

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General protection and hygiene measures:

Do not breathe dust. Do not get in eyes, on skin, or on clothing.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	solid
Colour:	Form: paste beige
Odour:	characteristic
Odour threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flammability:	No data available
Upper/lower flammability or explosive limits:	No data available
Flash point/flash point range:	not applicable
Decomposition temperature:	No data available
pH:	Not applicable
Viscosity, kinematic:	at 40 °C: 100 mm ² /s
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	No data available
Vapour pressure:	at 20 °C: < 0,001 hPa
Density:	at 20 °C: 0,91 g/cm ³
Vapour density:	No data available
Particle characteristics:	No data available

9.2 Other information

Explosive properties:	not explosive
Oxidizing characteristics:	No data available
Auto-ignition temperature:	No data available
Bulk density:	not applicable
Evaporation rate:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

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10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met. ATEmix (calculated): ATE > 5.000 mg/kg.

Acute toxicity (dermal): Based on available data, the classification criteria are not met. ATEmix (calculated): ATE > 5.000 mg/kg.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met. ATEmix (calculated): ATE > 5.000 mg/L.

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

11.2 Information on other hazards

Endocrine disrupting properties: No data available

Other information: Information about Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts with TBN <300:
Acute toxicity, oral, Rat, LD50: > 5.000 mg/kg
Acute toxicity, dermal, Rat, LD50: > 2.000 mg/kg
Acute toxicity, inhalative, Rat, LC50: > 1,9 mg/kg/4h

Information about Distillates (petroleum), hydrotreated heavy paraffinic:
Acute toxicity, oral, Rat, LD50: > 5.000 mg/kg (OECD 401)
Acute toxicity, dermal, Rabbit, LD50: > 5.000 mg/kg (OECD 402)
Acute toxicity, inhalative, Rat, LC50: > 5,53 mg/kg/4h (OECD 403)

Information about Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):
Acute toxicity, oral, Rat, LD50: > 3.100 mg/kg
Acute toxicity, dermal, Rabbit, LD50: > 5.000 mg/kg

12,8478 percent of the mixture consists of ingredient(s) of unknown acute toxicity.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Information about Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts with TBN <300:

Fish toxicity:

Oncorhynchus mykiss LC50: > 100 mg/L/96h (OECD 203)

Daphnia toxicity:

Daphnia magna (Big water flea) EC50: > 100 mg/L/48h (OECD 202)

Toxicity to other aquatic plants/organisms:

Desmodesmus subspicatus (green algae) NOELR: 100 mg/L/72h (OECD 201); EL50: 100 mg/L/72 h (OECD 201)

toxicity to microorganisms activated sludge EC50: > 10.000 mg/L/3h (OECD 209)

Information about: Distillates (petroleum), hydrotreated heavy paraffinic:

Fish toxicity:

Pimephales promelas (fathead minnow) LC50: > 100 mg/L/96h (OECD 203)

Daphnia toxicity:

Daphnia magna (Big water flea) EC50: > 10000 mg/L/48h (OECD 202)

Daphnia magna (Big water flea) NOEC: 10 mg/L/21d, (OECD 211)

Information about Distillates (petroleum), hydrotreated heavy naphthenic:

Fish toxicity:

Pimephales promelas (fathead minnow) LC50: > 100 mg/L/96h (OECD 203)

Oncorhynchus mykiss NOELR: >= 1.000 mg/L/28d calculated

Daphnia toxicity:

Daphnia magna (Big water flea) EC50: > 10.000 mg/L/48h (OECD 202)

Daphnia magna (Big water flea), NOELR: 10 mg/L/21d (OECD 211) Toxicity to other aquatic plants/organisms:

Pseudokirchneriella subcapitata (green algae) LC50: >100 mg/L/72h (OECD 201)

Information about Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):

Fish toxicity

Pimephales promelas (fathead minnow) LC50: 1 - 5 mg/L/96h

Daphnia toxicity:

Daphnia magna (Big water flea) EC50: 1 - 1,5 mg/L/48h

Toxicity to other aquatic plants/organisms

Pseudokirchneriella subcapitata (green algae) EC50: 1 - 5 mg/L/96h

12,8478 % of the mixture consists of components of unknown hazards to the aquatic environment.

Water Hazard Class: 1 = slightly hazardous to water

12.2 Persistence and degradability

Further details: Information about: Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts with TBN <300

Biodegradation: 8%/28d, (OECD 301D)

Not easily bio-degradable

Information about: Distillates (petroleum), hydrotreated heavy paraffinic:

Biodegradation: activated sludge 3%/28d, (OECD 301B)

Not easily bio-degradable.

Information about: Distillates (petroleum), hydrotreated heavy naphthenic:

Biodegradability: activated sludge, 3%/28d, (OECD 301B)

Not easily bio-degradable.

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12.3 Bioaccumulative potential

Information about: Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts with TBN <300
bioaccumulation: Bioconcentration factor (BCF): 70,8
Partition coefficient: n-octanol/water: log Pow: 26,22 (20 °C)

Information about: Distillates (petroleum), hydrotreated heavy paraffinic:
Partition coefficient: n-octanol/water: log Pow: >2

Partition coefficient: n-octanol/water:

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

The product does not contain any as PBT or vPvB classified substances.

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

General information:

Do not allow to enter into ground-water, surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 12 01 21 = spent grinding bodies and grinding materials other than those mentioned in 12 01 20

Recommendation: Do not dispose of with household waste.
Do not allow to enter into ground-water, surface water or drains.

Package

Waste key number: 15 01 06 = mixed packaging

Recommendation: Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable

14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA-DGR:

Not restricted

14.3 Transport hazard class(es)

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable

14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable

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14.5 Environmental hazards

Dangerous for the environment: Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant - IMDG: no

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

14.7 Maritime transport in bulk according to IMO instruments

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

National regulations - Germany

Storage class: 11 = Combustible solids
Water Hazard Class: 1 = slightly hazardous to water
Information on working limitations:
5.2.3 Gesamtstaub: 12.93%
5.2.5 Klasse 1: 0,08%
Sonstiges: 87%

Further regulations, limitations and legal requirements:
No data available

National regulations - Austria

Storage class: 11 = Combustible solids
Further regulations, limitations and legal requirements:
No data available

National regulations - Great Britain

Hazchem-Code: -
No data available

National regulations - EC member states

Labelling of packaging with <= 125mL content

Hazard statements: EUH210 Safety data sheet available on request.
Precautionary statements: not applicable
Further regulations, limitations and legal requirements:
No data available

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Wording of the H-phrases under paragraph 2 and 3:

H317 = May cause an allergic skin reaction.
EUH210 = Safety data sheet available on request.

Reason of change: General revision
Date of first version: 4.3.2021

Department issuing data sheet: see section 1: Department responsible for information

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Abbreviations and acronyms: ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
AS/NZS: Australian Standards/New Zealand Standards
BCF: Bioconcentration Factor
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EC50: Effective Concentration 50%
EN: European Standard
EQ: Excepted quantities
EU: European Union
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
LC50: Median lethal concentration
LD50: Lethal dose 50%
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Sens.: Skin sensitisation
TRGS: Technical Rules for Hazardous Substances
vPvB: Very persistent and very bioaccumulative

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products.