

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830



GEAR GREASE FT3

Product number 146

Revision date: 18/10/2021
Version: 4.1

Language: en-GB,DE,FR,IE

Date of print: 11/11/2021
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: GEAR GREASE FT3

This safety data sheet pertains to the following products:
Article number: 86396003 - GEAR GREASE FT3

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

General use: lubricants.
For industrial purposes only

1.3 Details of the supplier of the safety data sheet

Company name: August Rueggeberg 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
Portugal: 800 250 250
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)

Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (CLP)

Hazard statements: H412 Harmful to aquatic life with long lasting effects.

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Precautionary statements:

- P273 Avoid release to the environment.
P501 Dispose of contents/container to hazardous or special waste collection point.

Special labelling

- EUH208 Contains N-1-Naphthylaniline. May produce an allergic reaction.

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Mineral-oil based lubricating grease containing bentonit as thickening agent

Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119488764-27-xxxx EC No. 201-983-0 CAS 90-30-2	N-1-Naphthylaniline	< 0.5 %	Acute Tox. 4; H302. Skin Sens. 1; H317. STOT RE 2; H373. Aquatic Acute 1; H400 (M-factor = 1). Aquatic Chronic 1; H410 (M-factor = 1).
REACH 01-2119471836-27-xxxx EC No. 231-555-9 CAS 7632-00-0	Sodium nitrite	< 0.5 %	Ox. Sol. 3; H272. Acute Tox. 3; H301. Aquatic Acute 1; H400 (M-factor = 1).
REACH 01-2119777867-13-xxxx EC No. 202-414-9 CAS 95-38-5	2-(2-Heptadec-8-enyl-2-imidazolin-1-yl) ethanol	< 0.25 %	Acute Tox. 4; H302. Skin Corr. 1C; H314. STOT RE 2; H373. Aquatic Acute 1; H400 (M-factor = 10). Aquatic Chronic 1; H410 (M-factor = 1).

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

SECTION 4: First aid measures

4.1 Description of first aid measures

- In case of inhalation: Provide fresh air. Seek medical treatment in case of troubles.
Following skin contact: Remove residues with soap and water. 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. In case of eye irritation consult an ophthalmologist.
After swallowing: Seek medical treatment in case of troubles.

4.2 Most important symptoms and effects, both acute and delayed

May cause allergic reactions in already sensitized persons.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

water spray jet, Extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: nitrogen oxides (NO_x), carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus.

Additional information:

Hazchem-Code: -

Do not allow fire water to penetrate into surface or ground water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Wear appropriate protective equipment.
Provide adequate ventilation.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains.
Inform the relevant authorities in case of leakage into sewers, aquatic environment or soil.

6.3 Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

Additional information:

Special danger of slipping by leaking/spilling product.

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.
Avoid contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Store only in original container. Keep container tightly closed.
storage temperature: 0 °C up to 40°C.
Protect from heat and direct sunlight.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.
Keep away from oxidizing agents.

Storage class:

11 = Combustible solids

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7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
	GEAR GREASE FT3	France: VME	10 mg/m ³ (Dust limit value, inhalable fraction)
		France: VME	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)
		Ireland: 8 hours	10 mg/m ³ (Dust limit value, inhalable fraction)
		Ireland: 8 hours	4 mg/m ³ (Dust limit value, respirable fraction)
90-30-2	N-1-Naphthylaniline	Germany: TRGS 900 Kurzzeit	4 mg/m ³ (inhalable fraction)
		Germany: TRGS 900 Langzeit	2 mg/m ³ (inhalable fraction)

Additional information: Observe in addition any national exposure limit values!

8.2 Exposure controls

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

Personal protection equipment

Occupational exposure controls

Respiratory protection: Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Particulates filter P1 according to EN 143.

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Hand protection: Protective gloves according to EN 374.
Glove material: Nitrile rubber
Thickness: 0,3 mm
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.

General protection and hygiene measures:
Avoid contact with skin and eyes.
Take off immediately all contaminated clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and after work.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Form: pasty
Colour: light brown

Odour: like mineral oil

Odour threshold: No data available

pH: No data available

Melting point/freezing point: No data available

Initial boiling point and boiling range: > 300 °C (ASTM D86)

Flash point/flash point range: > 200 °C (ASTM D92)

Evaporation rate: No data available

Flammability: No data available

Explosion limits: No data available

Vapour pressure: No data available

Vapour density: No data available

Density: at 20 °C: 0.93 g/cm³ (ASTM D1217)

Water solubility: insoluble

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: not self-igniting

Decomposition temperature: > 350 °C

Viscosity, kinematic: No data available

Explosive properties: Product is not explosive.

Oxidizing characteristics: No data available

9.2 Other information

Additional information: Penetration value: 270 - 290 mm/10 (20°C; ISO 2137)

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SECTION 10: Stability and reactivity

10.1 Reactivity

refer to 10.3

10.2 Chemical stability

Product is stable under normal storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

strong oxidizing agents

10.6 Hazardous decomposition products

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

Thermal decomposition: > 350 °C

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: LD50 Rat, oral: 2000 - 5000 mg/kg
LC50 Rat, inhalative: > 5100 mg/m³/4h

Toxicological effects: Acute toxicity (oral): Based on available data, the classification criteria are not met. LD50 Rat, oral: ATE 29310 mg/kg

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Based on available data, the classification criteria are not met. Does not cause irritation.

Serious eye damage/irritation: Based on available data, the classification criteria are not met. Does not cause irritation.

Sensitisation to the respiratory tract: Lack of data.

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

Contains N-1-Naphthylaniline. May produce an allergic reaction.

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.

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Other information: Information about N-1-Naphthylaniline:
LD50, Rat, oral: 1625 mg/kg
Information about 2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol:
LD50, Rat, oral: 1265 mg/kg (OECD 401)
LD50, Rabbit, dermal: > 2000 mg/kg (OECD 404)

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Information about N-1-Naphthylaniline:
Bacterial toxicity:
EC50 activated sludge: > 10000 mg/L (OECD 209).
Algae toxicity:
EC50 *Desmodesmus subspicatus* (green algae): 0.25 mg/L/72h (OECD 201).
Daphnia toxicity:
EC50 *Daphnia magna* (Big water flea): 0.32 mg/L/48 h. (OECD 202).
Fish toxicity:
LC50 *Oncorhynchus mykiss*: 0.44 mg/L/96 h (OECD 203).
Information about 2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol:
Daphnia toxicity:
EC50 *Daphnia magna* (Big water flea): 0.136 mg/L/48 h (OECD 202).
Algae toxicity:
EC50 *Desmodesmus subspicatus* (green algae): 0.03 mg/L/72h (OECD 201).
Fish toxicity:
EC50 *Danio rerio* (zebrafish) 0.3 mg/L/96 h (OECD 203).

Water Hazard Class: 1 = slightly hazardous to water

12.2 Persistence and degradability

Further details: No data available

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

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

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 12 01 12* = spent waxes and fats
* = Evidence for disposal must be provided.
Recommendation: Do not dispose of with household waste. Do not empty into drains.

Package

Recommendation: Dispose of waste according to applicable legislation.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:
not applicable

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:
Not restricted

14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:
not applicable

14.4 Packing group

ADR/RID, IMDG, IATA-DGR:
not applicable

14.5 Environmental hazards

Marine pollutant: no

14.6 Special precautions for user

Only dangerous if carried on tank-ships.

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

No data available

SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code: -
No data available

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National regulations - Germany

Storage class: 11 = Combustible solids

Water Hazard Class: 1 = slightly hazardous to water

Further regulations, limitations and legal requirements:
No data available

National regulations - France

No data available

National regulations - EC member states

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

Further information

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

H272 = May intensify fire; oxidiser.
H301 = Toxic if swallowed.
H302 = Harmful if swallowed.
H314 = Causes severe skin burns and eye damage.
H317 = May cause an allergic skin reaction.
H373 = May cause damage to organs through prolonged or repeated exposure.
H400 = Very toxic to aquatic life.
H410 = Very toxic to aquatic life with long lasting effects.
H412 = Harmful to aquatic life with long lasting effects.
EUH208 = Contains N-1-Naphthylaniline. May produce an allergic reaction.

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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
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC50: Effective Concentration 50%
EC: European Community
EN: European Standard
EU: European Union
IATA: International Air Transport Association
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
M-factor: Multiplication factor
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
STOT RE: Specific target organ toxicity - repeated exposure
vPvB: Very persistent and very bioaccumulative

Reason of change: Changes in section 8: Occupational exposure limit values
Date of first version: 18/6/2013

Department issuing data sheet

Contact person: see section 1: Department responsible for information

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.