grease Article number 02582



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2024, Revision 15.03.2024 Version 14.0 Page 1 / 13

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

1.1 Product identifier

grease

Article number: 02582

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

Skin Sens. 1: H317 May cause an allergic skin reaction.

2.2 Label elements

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

(HCS 2012)

Hazard pictograms

<u>(!</u>)

Signal word WARNING

Contains: Naphthenic acids, zinc salts, basic, CAS: 84418-50-8

Hazard statements H317 May cause an allergic skin reaction.

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

P102 Keep out of reach of children. P261 Avoid breathing vapors/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container to in accordance with local/regional/national/international

regulation.

2.3 Other hazards

Human health dangers Has a degreasing effect on the skin.

Environmental hazardsDoes 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.

grease Article number 02582



Ferdinand Bilstein GmbH + Co. KG

SECTION 3: Composition / Information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
0,1 - < 1	Naphthenic acids, zinc salts, basic
	CAS: 84418-50-8

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 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.

Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Allergic reactions

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.

Carbon monoxide (CO) Sulphur oxides (SOx). Nitrogen oxides (NOx).

5.3 Advice for firefighters

Use self-contained breathing apparatus.

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

the local regulations.

grease Article number 02582



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2024, Revision 15.03.2024

Version 14.0

Page 3 / 13

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

High risk of slipping due to leakage/spillage of product.

Forms slippery surfaces with water.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.

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.

Avoid formation of oil dust.

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

Use barrier skin cream.

Wash hands before breaks and after 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 in a cool place.

Protect from heat/overheating.

7.3 Specific end use(s)

See product use, SECTION 1.2

grease Article number 02582



Ferdinand Bilstein GmbH + Co. KG

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (US)

Not applicable

DNEL

Substance

Naphthenic acids, zinc salts, basic, CAS: 84418-50-8

There are no DNEL values established for the substance

PNEC

Substance

Naphthenic acids, zinc salts, basic, CAS: 84418-50-8

freshwater, 6,39 µg/L

seawater, 0,64 µg/L

sewage treatment plants (STP), 147,73 µg/L

sediment (freshwater), 31,93 mg/kg Sediment dw

sediment (seawater), 3,19 mg/kg Sediment dw

soil, 6,38 mg/kg Boden dw

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 IEA's list of

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 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

information

> 0,38 mm; 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.

Avoid contact with eyes and skin.

Respiratory protection Not required under normal conditions.

Thermal hazards No information available.

Delimitation and monitoring of the

environmental exposition

Comply with applicable environmental regulations limiting discharge to air, water and soil.

grease Article number 02582



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2024, Revision 15.03.2024 Version 14.0 Page 5 / 13

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical stateSolidFormpastyColorblack

Odor characteristic

Odor threshold No information available.

pH-valuepH-value [1%]Not applicable

Boiling point or initial boiling point

and boiling range [°C]

No information available.

Flammability Combustible

Lower explosion limit Not applicable

Upper explosion limit Not applicable

Oxidizing properties None

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

Density [g/cm³]< 1,0 (25 °C)</th>Relative densityNot determinedBulk density [kg/m³]Not applicableSolubility in waterinsoluble

Solubility other solvents No information available.

Partition coefficient n-octanol/water No information available.

(log value)

.....

Kinematic viscosity > 22,5 mm²/s (40 °C)

Relative vapour density No information available.

Melting point [°C] No information available.

Auto-ignition temperature [°C] No information available.

Decomposition temperature [°C] No information available.

Particle characteristics No information available.

9.2 Other information

Operation temperature: -30°C - +130°C

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

10.4 Conditions to avoid

Sensitive to moisture Strong heating.

grease Article number 02582



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2024, Revision 15.03.2024

Version 14.0

Page 6 / 13

10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous decomposition products

No hazardous decomposition products known.

grease Article number 02582



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2024, Revision 15.03.2024

Version 14.0

Page 7 / 13

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

Naphthenic acids, zinc salts, basic, CAS: 84418-50-8

LD50, oral, Rat, > 2000 mg/kg bw

Acute dermal toxicity

Product

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

Substance

Naphthenic acids, zinc salts, basic, CAS: 84418-50-8

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

Acute inhalational toxicity

Product

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

Substance

Naphthenic acids, zinc salts, basic, CAS: 84418-50-8

LC50, inhalative, Rat, > 0.42 mg/l/4h

Serious eye damage/irritation

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

Substance

Naphthenic acids, zinc salts, basic, CAS: 84418-50-8

Eye, Rabbit, OECD 405, non-irritating

Skin corrosion/irritation

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

Substance

Naphthenic acids, zinc salts, basic, CAS: 84418-50-8

dermal, Rabbit, OECD 404, non-irritating

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Based on the information available, the classification criteria have been fulfilled.

Calculation method

Substance

Naphthenic acids, zinc salts, basic, CAS: 84418-50-8

dermal, Guinea pig, OECD 406, sensitising

Specific target organ toxicity — 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

grease Article number 02582



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2024, Revision 15.03.2024

Version 14.0

Page 8 / 13

Naphthenic acids, zinc salts, basic, CAS: 84418-50-8

NOAEL, oral, Rat, 50 mg/kg bw/day

Mutagenicity

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

Substance

Naphthenic acids, zinc salts, basic, CAS: 84418-50-8

InVitro, OECD 471, negativ

InVivo, OECD 474, negativ

Reproduction toxicity

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

- Fertility

Substance

Naphthenic acids, zinc salts, basic, CAS: 84418-50-8

NOAEL, oral, Rat, 250 mg/kg bw/day

- Development

Substance

Naphthenic acids, zinc salts, basic, CAS: 84418-50-8

NOAEL, oral, Rat, 188 mg/kg bw/day

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.

SECTION 12: Ecological information

12.1 Toxicity

Product

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

Substance

Naphthenic acids, zinc salts, basic, CAS: 84418-50-8

LC50, (4d), fish, 112 - 5620 µg/L

EC50, (48h), Invertebrates, 155 - 20 000 μg/L

EC50, (72h), Algae, 3,62 - 29,6 mg/L

12.2 Persistence and degradability

Behaviour in environment

Not determined

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.

grease Article number 02582



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2024, Revision 15.03.2024

Version 14.0

Page 9 / 13

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

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Ecotoxicological data are not available.

Do not discharge product unmonitored into the environment or into the drainage.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Coordinate disposal with the authorities if necessary.

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 Not applicable

Air transport in accordance with IATA Not applicable

DOT Road Shipment Information (49 Not applicable

grease Article number 02582

Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2024, Revision 15.03.2024

Version 14.0 Page 10 / 13

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)

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 Not applicable

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)

grease Article number 02582



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2024, Revision 15.03.2024 Version 14.0 Page 11 / 13

14.5 Environmental hazards

Transport by land according to

ADR/RID

No

Inland navigation (ADN)

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 This product does not contain any ingredients regulated under this list. - SARA, 311 This product does not contain any ingredients regulated under this list. - SARA, 313 This product does not contain any ingredients regulated under this list.

- CA Proposition 65 No components require labeling under California Proposition 65.

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

Inventory.

- FDA

American Conference of

Governmental Industrial Hygienists -

No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcino-gen by ACGIH.

Cancer IARC

International Agency for Research on No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

National Toxicology Program - NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.

HAP-VOC < 3 g/l

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

15.2 Chemical safety assessment

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

grease Article number 02582



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2024, Revision 15.03.2024

Version 14.0 Page 12 / 13

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

grease Article number 02582



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2024, Revision 15.03.2024

Version 14.0 Page 13 / 13

NFPA Ratings



TOP, FLAMMABILITY: 1 - Slight Hazard LEFT, HEALTH: 2*- Moderate chronic Hazard RIGHT, REACTIVITY: 0 - Minimal Hazard BOTTOM, SPECIAL NOTICE:

HMIS Ratings



- 2*- Moderate chronic Hazard
- 1 Slight Hazard
- 0 Minimal Hazard
- B Safety Glasses and Gloves

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

1.3, 3.2, 4.2, 6.1, 7.2, 8.1, 8.2, 9.1, 9.2, 10.4, 11.1, 11.2, 12.6, 12.7, 15.1, 16.2, 16.3