

Ferdinand Bilstein GmbH + Co. KG

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1 Identification of the substance / preparation and of the company

1.1 Product identifier

febi 21829 gear oil
Article number 21829

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

See product designation

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.febl.com E-mail: info@febl.com
Responsible	Schroeder@chemiebuero.de

1.4 Emergency phone

+49 (0) 89-19240 (24h)

2 Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

not applicable

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

The product is labelled in accordance with EC directives.

2.2 Label elements

Hazard symbols	none
R-phrases	none
S-phrases	none
Special labelling	Safety data sheet available for professional user on request. Contains Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs.. May produce an allergic reaction.

2.3 Other hazards

Physico-chemical hazards	See chapter 10.
Human health dangers	If swallowed or in the event of vomiting, risk of product entering the lungs.
Environmental hazards	The product/the substance has the Water Hazard Class 2.
Other hazards	No particular hazards known.

3 Composition / Information on ingredients

3.1 Substances

The product in question is a mixture.

3.2 Mixtures

Range [%]	Substance
1 - 2,4	Olefin sulphide
	CAS:
	GHS/CLP: not applicable
	R53

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or below 0,1%.
For the wording of the listed risk phrases refer to section 16.

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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 for 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	In case of contact with eyes rinse thoroughly and immediately with plenty of water and seek medical advice.
Ingestion	Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Supply with medical care.

4.2 Most important symptoms and effects, both acute and delayed

No informations 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.

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

Not combusted hydrocarbons.
Unknown 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.
Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

6 Accidental release measures

6.1 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.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See Chapter 8+13

7 Handling and storage

7.1 Precautions for safe handling

Avoid formation of aerosols.
No special measures necessary.

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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 tightly closed.
Keep container in a well-ventilated place.

7.3 Specific end use(s)

See product use, Chapter 1.2

8 Exposure controls / personal protection

8.1 Control parameters

not applicable

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. Nitrile rubber, >480 min (EN 374). Neoprene, >480 min (EN 374).
Skin protection	Light protective clothing.
Other	Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier. Do not eat, drink, smoke or take drugs at work. Use barrier skin cream. Wash hands before breaks and after work. Cloths contaminated with product should not be kept in trouser pockets.
Respiratory protection	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, combination filter A-P1.
Thermal hazards	No informations available.
Delimitation and monitoring of the environmental exposition	not determined

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9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	light yellow
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not determined
Flash point [°C]	221 (ISO 2592)
Flammability [°C]	not determined
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	no
Vapour pressure [kPa]	not determined
Density [g/ml]	0,877 (DIN 51757) (15°C / 59,0°F)
Bulk density [kg/m ³]	not applicable
Solubility in water	immiscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	41 mm ² /s (40°C); (DIN 51562)
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not applicable
Decomposition temperature	not determined

9.2 Other information

No informations available.

10 Stability and reactivity

10.1 Reactivity

See chapter 10.3.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

10.4 Conditions to avoid

See chapter 7.2.

10.5 Incompatible materials

No informations available.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Serious eye damage/irritation	not determined
Skin corrosion/irritation	not determined
Respiratory or skin sensitisation	not determined
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	not determined
Reproduction toxicity	not determined
Carcinogenicity	not determined
General remarks	

No classification on the basis of the calculation procedure of the preparation directive.
Toxicological data are not available.

12 Ecological information

12.1 Toxicity

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

12.3 Bioaccumulative potential

No informations available.

12.4 Mobility in soil

No informations available.

12.5 Results of PBT and vPvB assessment

No informations available.

12.6 Other adverse effects

No classification on the basis of the calculation procedure of the preparation directive.
Ecological data are not available.
Do not discharge product unmonitored into the environment or into the drainage.

13 Disposal considerations

13.1 Waste treatment methods

Coordinate the waste disposal with the national authorities.

Product

Dispose of as hazardous waste.
In according to RoHS!
Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended)

130205* mineral-based non-chlorinated engine, gear and lubricating oils

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150110*

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14 Transport information

14.1 UN number

See point 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Classification according to ADR	NO DANGEROUS GOODS
Classification according to IMDG	NOT CLASSIFIED AS "DANGEROUS GOODS"
Classification according to IATA	NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

See point 14.2 in accordance with UN shipping name

14.4 Packing group

See point 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See point 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under points 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

15 Regulatory information

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

EEC-REGULATIONS	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2011); IMDG-Code (2011, 35. Amdt.); IATA-DGR (2011).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits with amendments October 2007. CHIP 3/ CHIP 4

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

16 Other informations

R-phrases (Chapter 03)	R 53: May cause long-term adverse effects in the aquatic environment.
Observe employment restrictions for people	no
VOC (1999/13/CE)	0 %

Disclaimer: This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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