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

1.1 Product identifier

febi 22503 hydraulic accumulator

Article number: 22503

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

1.2.1 Relevant uses

Hydraulic accumulators

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 [REGULATION (EC) No 1272/2008]

Press. Gas (Compressed gas): H280 Contains gas under pressure; may explode if heated.

2.2 Label elements

This product is an article and therefore does not require labelling according to EC directives

[REACH/CLP].

2.3 Other hazards

none

The contained dangerous materials are not freely available with foreseeable use.

Physico-chemical hazards This accumulator is a cylinder containing nitrogen, a colorless inert gas under pressure. Do

not rupture, open or disassemble this accumulator. Do not expose the accumulator to direct

flame or heat.

Environmental hazards Does not contain any PBT or vPvB substances.

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

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

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3.2 Mixtures

The product is an article.

Range [%]	Substance
79	Nitrogen
	CAS: 7727-37-9, EINECS/ELINCS: 231-783-9
	GHS/CLP: Press. Gas (Compressed gas): H280

Comment on component parts The conce

The concentrations of the ingredients are valid for containig gases. They are not for the

complete system.

The contained dangerous materials are not freely available with foreseeable use.

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information none

The contained dangerous materials are not freely available with foreseeable use.

InhalationNot required under normal conditions.Skin contactNot required under normal conditions.Eye contactNot required under normal conditions.IngestionNot required under normal conditions.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Product itself is non-combustible. Fire extinguishing method of surrounding areas must be

considered.

Extinguishing media that must not

be used

none

5.2 Special hazards arising from the substance or mixture

Bursting Containers can be forcibly projected from a fire.

5.3 Advice for firefighters

Not required under normal conditions.

Cool containers at risk with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Not required under normal conditions.

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.

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Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No dangerous reactions known if used as directed.

Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from acids

Do not store together with oxidizing agents.

Keep in a cool place.

Protect from heat/overheating and from sun.

Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

not applicable

8.2 Exposure controls

Additional advice on system design No special measures necessary.

Eye protection Not required under normal conditions. Hand protection Not required under normal conditions.

Skin protection Protective clothing (EN 340)

Other

Respiratory protection Not required under normal conditions.

Thermal hazards none Delimitation and monitoring of the environmental exposition

none

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state compressed gas
Color colourless

Odor odourless
Odour threshold not applicable
pH-value not applicable
pH-value [1%] not applicable
Boiling point [°C] not applicable
Flash point [°C] not applicable

Flammability (solid, gas) [°C] no

Lower explosion limit not applicable
Upper explosion limit not applicable

Oxidising properties no

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

Density [g/ml] No information available.

Bulk density [kg/m³] not applicable

Solubility in water insoluble

Solubility other solvents No information available.

 Partition coefficient [n-octanol/water]
 not applicable

 Kinematic viscosity
 not applicable

 Relative vapour density
 not applicable

 Evaporation speed
 not applicable

 Melting point [°C]
 not applicable

 Auto-ignition temperature
 not applicable

 Decomposition temperature [°C]
 not applicable

Particle characteristics No information available.

9.2 Other information

No information available.

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

Strong heating.

10.5 Incompatible materials

none

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10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity not determined

Product

oral, Based on the available information, the classification criteria are not fulfilled.

Acute dermal toxicity not determined

Product

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

Acute inhalational toxicity not determined

Product

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

Serious eye damage/irritation Based on the available information, the classification criteria are not fulfilled.

Skin corrosion/irritation Based on the available information, the classification criteria are not fulfilled.

Respiratory or skin sensitisation

Based on the available information, the classification criteria are not fulfilled.

Specific target organ toxicity—

Based on the available information, the classification criteria are not fulfilled.

single exposure

Specific target organ toxicity —

repeated exposure

Based on the available information, the classification criteria are not fulfilled.

Mutagenicity Based on the available information, the classification criteria are not fulfilled.

Reproduction toxicity

Based on the available information, the classification criteria are not fulfilled.

Carcinogenicity Based on the available information, the classification criteria are not fulfilled.

Aspiration hazard Based on the available information, the classification criteria are not fulfilled.

General remarks

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.

SECTION 12: Ecological information

12.1 Toxicity

Product

Based on the available information, the classification criteria are not fulfilled.

12.2 Persistence and degradability

Behaviour in environment

not determined

compartments

Behaviour in sewage plant not determined Biological degradability not determined

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

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12.4 Mobility in soil

not applicable

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

No information available.

12.7 Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

For recycling, consult manufacturer.

Waste no. (recommended) 0604

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150103

150101 150104

SECTION 14: Transport information

14.1 UN number

Transport by land according to

ADR/RID

3164

Inland navigation (ADN) 3164

Marine transport in accordance with 3164

IMDG

Air transport in accordance with IATA 3164

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14.2 UN proper shipping name

Transport by land according to

ADR/RID

To the regulations ADR is not subject after special regulation 594

Inland navigation (ADN)

To the regulations ADR is not subject after special regulation 594

Marine transport in accordance with To the regulations IMDG is not subject after special regulation 283

Air transport in accordance with IATA Articles, pressurized, pneumatic

- Label

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 2

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

14.5 Environmental hazards

Transport by land according to

ADR/RID

no

Inland navigation (ADN)

no

Marine transport in accordance with no

IMDG

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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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

EEC-REGULATIONS 2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006

(REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131;

(EU) 517/2014

TRANSPORT-REGULATIONS ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions

for people

none

- VOC (2010/75/CE) 0%

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

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16.2 Abbreviations and acronyms:

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

ATE = acute toxicity estimate CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration

ECB = European Chemicals Bureau EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

EL50 = Median effective loading

ELINCS = European List of Notified Chemical Substances

EmS = Emergency Schedules

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

IUCLID = International Uniform ChemicaL Information Database
IVIS = In vitro irritation score

LC50 = Lethal concentration, 50% LD50 = Median lethal dose LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LL50 = Median lethal loading LQ = Limited Quantities

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

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

16.3 Other information

Classification procedure Press. Gas (Compressed gas): H280 Contains gas under pressure; may explode if heated.

(On basis of test data)

Modified position none