Ferdinand Bilstein GmbH + Co. KG

Date printed 14.03.2025, Revision 14.03.2025



Page 1 / 9 Version 7.0. Supersedes version: 6.0

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

Product identifier

hydraulic accumulator Article number: 03278

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.

Details of the supplier of the safety data sheet

Ferdinand Bilstein GmbH + Co. KG Company

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 info@febi.com Safety Data Sheet

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification

Classification of the substance or mixture [REGULATION (GB) CLP]

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

2.2 Label elements

This product is an article and therefore it does not require labelling according to regulations

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

ranging between approximately 20 - 80 bar [20°C/68°F]. Do not rupture, open or disassemble

this accumulator. Do not expose the accumulator to direct flame or heat.

Human health dangers The substance/mixture does not contain components considered to have endocrine disrupting

properties according to REACH Article 57(f) or Commission Delegated regulation (EU)

2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Environmental hazards This substance/mixture contains no components considered to be either persistent,

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels

of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU)

2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

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Date printed 14.03.2025, Revision 14.03.2025

Version 7.0. Supersedes version: 6.0

Page 2 / 9

SECTION 3: Composition / Information on ingredients

3.1 Substances

The product is an article.

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

Comment on component parts

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

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.

3.2 Mixtures

not applicable

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.

Ingestion not applicable

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

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.

6.4 Reference to other sections

See SECTION 8+13

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Date printed 14.03.2025, Revision 14.03.2025

Version 7.0. Supersedes version: 6.0

Page 3 / 9

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.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (UK)

not relevant

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

8.2 Exposure controls

Additional advice on system design

Eye protection

Not required under normal conditions.

Hand protection

Not required under normal conditions.

Skin protectionProtective clothing (EN 340)OtherNo information available.

Respiratory protection Not required under normal conditions.

Thermal hazards

Delimitation and monitoring of the

environmental exposition

none

Ferdinand Bilstein GmbH + Co. KG

Date printed 14.03.2025, Revision 14.03.2025



Version 7.0. Supersedes version: 6.0

Page 4 / 9

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state solid

Form capsule

compressed gas Color colourless Odor odourless **Odour threshold** not applicable pH-value not applicable pH-value [1%] not applicable not relevant

Boiling point or initial boiling point

and boiling range [°C]

Flash point [°C]

not applicable

Flammability no

Lower explosion limit not applicable Upper explosion limit not applicable

Oxidising properties

Vapour pressure/gas pressure [kPa] No information available. No information available. Density [g/cm³] Relative density No information available.

Bulk density [kg/m³] not applicable Solubility in water insoluble

No information available. Solubility other solvents

Partition coefficient n-octanol/water

(log value)

not relevant

Kinematic viscosity not applicable Relative vapour density not applicable Melting point [°C] not relevant Auto-ignition temperature [°C] not applicable Decomposition temperature [°C] not applicable Particle characteristics not applicable

9.2 Other information

Pre-charge pressure [bar](20°C): 57 Permitted operating pressure [bar]: 140

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

10.6 Hazardous decomposition products

No hazardous decomposition products known.

Ferdinand Bilstein GmbH + Co. KG

Date printed 14.03.2025, Revision 14.03.2025



Version 7.0. Supersedes version: 6.0 Page 5 / 9

SECTION 11: Toxicological information

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

Based on the available information, the classification criteria are not fulfilled. Acute oral toxicity Acute dermal toxicity Based on the available information, the classification criteria are not fulfilled. Acute inhalational toxicity 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 — Based on the available information, the classification criteria are not fulfilled.

repeated exposure

MutagenicityBased on the available information, the classification criteria are not fulfilled.Reproduction toxicityBased on the available information, the classification criteria are not fulfilled.CarcinogenicityBased on the available information, the classification criteria are not fulfilled.Aspiration hazardBased on the available information, the classification criteria are not fulfilled.General remarksGeneral 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.

11.2 Information on other hazards

11.2.1 Endocrine disruptingContains no ingredients with endocrine-disrupting properties.

11.2.2 Other information none

SECTION 12: Ecological information

12.1 Toxicity

12.2 Persistence and degradability

Behaviour in environment No information available.

compartments

Behaviour in sewage plant No information available.

Biological degradability No information available.

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

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

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

None known.

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Date printed 14.03.2025, Revision 14.03.2025

Version 7.0. Supersedes version: 6.0

Page 6 / 9

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 or ID number

Transport by land according to

ADR/RID

3164

Inland navigation (ADN) 3164

Marine transport in accordance with

IMDG

3164

Air transport in accordance with IATA 3164

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

IMDG

- Label

Articles, pressurized, pneumatic

- EMS

F-C, S-V

- IMDG LQ

0,12 l

Air transport in accordance with IATA Articles, pressurized, pneumatic

- Label



Ferdinand Bilstein GmbH + Co. KG

Date printed 14.03.2025, Revision 14.03.2025

Version 7.0. Supersedes version: 6.0

Page 7 / 9

14.3 Transport hazard class(es)

Transport by land according to

not applicable

ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with 2.2

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

Inland navigation (ADN) no

Marine transport in accordance with no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

Ferdinand Bilstein GmbH + Co. KG

Date printed 14.03.2025, Revision 14.03.2025



Version 7.0. Supersedes version: 6.0

Page 8 / 9

SECTION 15: Regulatory information

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

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

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

(EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707

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

- Annex XIV (REACH) According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain

any substances \geq 0.1% that are subject to authorisation.

- Annex XVII (REACH) According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product does not

contain any substances ≥ 0.1% that are restricted.

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is not subject to

any restrictions.

TRANSPORT-REGULATIONS ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025)

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

REACH; GB CLP.

- Observe employment restrictions

for people

- VOC (2010/75/CE) 0%

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H280 Contains gas under pressure; may explode if heated.

Ferdinand Bilstein GmbH + Co. KG

Date printed 14.03.2025, Revision 14.03.2025



Version 7.0. Supersedes version: 6.0

Page 9 / 9

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par

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