

Product group: Gas springs

Date of issue / reference: 15th August 2017 Replaces version of: 10th April 2017

Company: ACE Stoßdämpfer GmbH, Albert-Einstein-Str. 15,

D-40764 Langenfeld, Germany

Telephone: 0049 2173 9226 10 Facsimile: 0049 2173 9226 19

1. Tradename and supplier:

1.1 Trade name /

Labelling of goods: Gas springs

1.2 Application/ use: Energy storage/universal

ACE Stoßdämpfer GmbH, Albert-Einstein-Straße 15,

D-40764 Langenfeld, Germany

1.4 Emergency No.: 0049 2173 9226 10

2.Composition:

2.1 Chemical

characteristics Steel, aluminium, plastics

2.2 Hazardous components Contains gas under pressure (nitrogen)

2.3 Other data Contains hydraulic oil

3. Hazardclassification:

No hazardous substance.

4.Firstaid:

4.1 Eye contact Not applicable

4.2 Skin contact Not applicable

4.3 Swallowing Not applicable

4.4 Inhalation Not applicable

4.5 Other data Not applicable



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5. Firefighting:

The product itself is incombustible; but as pressure vessel do not heat – risk of bursting!

5.1 Suitable fire suppressant Water spray, carbon dioxide, foam, dry chemical.

5.2 Unsuitable fire suppressant None.

5.3 Other data None.

6. Action taken incase of unintentional release:

None.

7. Handling and storage:

7.1 Handling Handling of this product by sufficiently trained staff

only. Observe technical rules!

7.2 Industrial hygiene No special precautions

7.3 Storage Store in a clean and dry location.

Keep away from heat sources.

Do not expose to direct sunlight.

Store in original packaging only (see notes).

7.4 Storage location As in chapter 7.3

7.5 Fire and ex protection Do not heat!



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8. Exposure limitation and protection equipment:

8.1 Technical measures see chapter on "Technical provisions"

8.2 Observation of limit value No limit value determined.

8.3 Personal protection equipment

8.3.1 Respiratory protection None.
8.3.2 Hand protection None.
8.3.3 Eye protection None.
8.3.4 Other None.

9. Physical and chemical properties:

9.1 Appearance Solid state body

9.2 Color Various

9.3 Smell Not applicable

9.4 Change in status Not applicable

9.5 Density Not applicable

9.6 Steam pressure Not applicable

9.7 Viscosity Solid state body

9.8 Solubility Insoluble in water

9.9 pH value Not applicable

9.10 Flashpoint Not applicable

9.11 Ignition temperature not specified

9.12 Explosion limits Lower: Not applicable

Upper: Not applicabe

9.13 Other data None.



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10.Stability and reactivity:

10.1 Thermal decomposition None when used according to the intended purpose,

however danger of bursting.

10.2 Hazardous decomposition

products

None under normal storage and handling conditions.

10.3 Hazardous reactions None.

10.4 Other data None.

11. Dataontoxicity:

11.1 Acute toxicity None.

11.2 Sub-acute / chronic toxicity None.

11.3 Other data None.

12. Data on ecology:

Product Water hazard class: 0

Hydraulic oils Water hazard class: 1 (slightly hazardous to water)

13.Disposal:

Due to the hydraulic oil contained, ensure proper disposal! Waste code number of the hydraulic oil: 130 208

Please also observe the technical rules of ACE Stoßdämpfer GmbH in their respective version valid at the time. They can be obtained free of charge from the manufacturer.



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14.Transport:

14.1 Land transport

RID / ADR UN 3164

Objects under pneumatic pressure or objects under hydraulic pressure (with non-inflammable gas)

Transport hazard class 2 Warning label 2.2 Classification code 6A Special regulations 283 594 Limited quantity (LQ) 120 mL

Transport category 3
Tunnel restriction code E

Other relevant data: The conditions for exemption I keeping with special regulations 594 and 283 are fulfilled.

14.2 Inland waterway transport

UN 3164

Objects under pneumatic pressure or objects under hydraulic pressure (with non-inflammable gas)

Transport hazard class 2 Warning label 2.2 Classification code 6A Special regulations 283 594 Limited quantity (LQ) 120 mL

Transport category 3
Tunnel restriction code E

Other relevant data: The conditions for exemption in keeping with special regulations 594 and 283 are fulfilled.



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14.3 Marine transport

UN 3164

Objects under pneumatic pressure or objects under hydraulic pressure (with non-inflammable gas)

Transport hazard class 2

Warning label 2.2 Classification code 6A Water hazard class: 0 Special regulations 283 594 Limited quantity (LQ) 120 mL

EmS: F-C, S-V

Other relevant data: The conditions for exemption in keeping with special regulations 594 and 283 are fulfilled.

14.4 Air transport

UN 3164

Articles, pressurised, pneumatic (containing non-

inflammable gas)

Transport hazard class 2.2

Warning label 2.2

Special regulations A114

Limited quantity (LQ) passenger: --

IATA packaging instructions passenger: 208

IATA maximum quantity: free

IATA packaging instructions cargo: 208
IATA maximum quantity cargo: free

The release conditions of A114 are fulfilled.

Passenger LQ: --



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15.Otherdata/instructions:

Unless one of the following criteria applies, the products are subject to labelling in the sense of the EC directives.

In conformity with the Pressure Vessel Directive 97/23/EC, the following parts are subject to CE labelling:

This declaration of conformity applies for the following gas pressure springs and gas pull spring with a volume as from 1 litre:

Gas pressure	Gas pull
spring –	spring GZ-40
pressure pipe	
GS-40	
As from pipe	As from piston
length	rod length 1200
1035 mm	mm

The product does not fall under EC Directive 93/42 for medical products.

All data mentioned hereinbefore are in keeping with current knowledge and experience.

The safety data sheet is intended to describe the products with respect to their safety requirements.

The data are not intended to assure properties.

To be observed:

The technical regulations:

"Design and installation of ACE products"

as well as

"Disposal of ACE products"

in their respective applicable version.