



## EU Safety Data Sheet

Product group: Gas Springs

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### (1) Trade name and Supplier:

1.1	Trade name :	BM®
	Labelling of goods :	Ressort à gaz, Gas Spring, Gasfeder
1.2	Application / use :	Energy storage / universal
1.4	Emergency No :	0033.(0)3.88.40.31.61

### (2) Composition:

2.1	Chemical characteristics	Steel, Aluminium, plastics, rubber
2.2	Hazardous components	Contains gas under pressure (nitrogen N <sub>2</sub> ) Warning ! Pressurized container maximum 160 bars Nitrogen is suffocating by replacing ambient oxygen
2.3	Other data	Contains hydraulic oil

### (3) Hazard classification:

No hazardous substance

### (4) First aid:

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

### (5) Fire fighting:

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	Cool with water the container as soon as possible Can be released in case of fire: CO and NO <sub>x</sub> Possible formation of toxic gases during heating

(6) Measures in case 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 (store less than 50°C) Do not expose to direct sunlight (that increase the internal pressure of the container) Store in original packaging only Storage class 2A
7.4	Storage location	As in chapter 7.3
7.5	Fire and ex protection	Do not heat !

(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	Respiratory protection      None Hand protection              None Eye protection                None Other                              None

(9) Physical and chemical properties:

9.1	Appearance	Solid state body
9.2	Colour	Various but mostly black
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	Not applicable
9.8	Solubility	Insoluble in water
9.9	PH value	Not applicable
9.10	Flashpoint	Not applicable
9.11	Ignition temperature	Not determined
9.12	Explosion limits	Not applicable
9.13	Other data	None

(10) Stability and reactivity:

10.1	Thermal decomposition	None when used according to the intended purpose
10.2	Hazardous decomposition	None under normal storage conditions
10.3	Hazardous reactions	None
10.4	Other data	None

(11) Toxicological information:

11.1	Acute toxicity	None
11.2	Sub-acute / chronic toxicity	None
11.3	Other data	None

(12) Ecological information:

Water hazard class 1 (Slightly hazardous for water)  
The product contains materials that are harmful to the environment.

(13) Disposal considerations:

Due to the hydraulic oil contained, ensure proper disposal ! Waste code 130 208  
Neutralize the internal gas pressure before recycling, according the Berthold Marx  
Security Protocol available on the webside : [www.bertholdmarx.com](http://www.bertholdmarx.com)

(14) Transport information:

## 14.1 Land transport ADR/RID (cross-border)

UN-Number:	UN3164
ADR/RID-GGVSE:	Class 2 Classification code 6A Gases
Warning Label:	2.2
Designation of goods:	3164 Objects under pneumatic or hydraulic pressure
Special regulations	283 594
Limited quantity (LQ)	120ml
Transport category	3
Tunnel restriction code	E
Other	Special regulation 594 and 283 are fulfilled

## 14.2 Inland waterway transport

UN-Number:	UN3164
ADR/RID-GGVSE:	Class 2 Classification code 6A Gases
Warning Label:	2.2
Designation of goods:	3164 Objects under pneumatic or hydraulic pressure
Special regulations	283 594
Limited quantity (LQ)	120ml
Transport category	3
Other	Special regulation 594 and 283 are fulfilled

## 14.3 Marine transport

UN-Number:	UN3164
ADR/RID-GGVSE:	Class 2 Classification code 6A Gases
Warning Label:	2.2
Designation of goods:	3164 Objects under pneumatic or hydraulic pressure
Special regulations	283 594
Limited quantity (LQ)	120ml
Transport category	3
Other	Special regulation 594 and 283 are fulfilled

#### 14.4 Air transport

UN-Number:	UN3164
Articles, pressurized, pneumatic (containing non-inflammable gas)	
Transport hazard class	2.2
Warning label	2.2
Special regulations	A114
Limited quantity (LQ) passenger	None
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	

#### (15) Other data / Instructions

In case the volume of the tube exceed 1 liter the Pressure Vessel Directive 97/23/EC is applicable and have to be observed.

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.

To be observed: Our "Security Protocol" for gas spring available on our website : [www.bertholdmarx.com](http://www.bertholdmarx.com)