

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 20.12.2016

Version number 1

Revision: 20.12.2016

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

· **1.1 Product identifier**

· **Trade name:** **CO<sub>2</sub> -Kapseln 16g f. Zapfanlagen SBBox**

· **Article number:** 43092

· **CAS Number:**

124-38-9

· **EC number:**

204-696-9

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

No further relevant information available.

· **Application of the substance / the mixture**

E290

Food additive

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Fackelmann GmbH + Co. KG

Sebastian-Fackelmann-Str. 6

91217 Hersbruck

Tel: 09151-811 153

Fax: 09151-811 294

www.fackelmann.de

· **Informing department:** Phone: 09151-811 153

· **1.4 Emergency telephone number:**

Phone 09151-811 153

(Office hours 08:00 - 16:00)

Poisoning Information Center Fribourg

Mathildenstr. 1

D-79106 Freiburg

Germany

Tel.: +49-(0)761-19240

giftinfo@uniklinik-freiburg.de

(Information in German and English)

**SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

The substance is not classified according to the CLP regulation.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008** Void

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **Additional information:**

For this product (substance/mixture/article) there is not obligatory requirement to prepare a safety data sheet according article 31 of the regulation (EC) 1907/2006. This information sheet gives relevant details according article 32 of the mentioned regulation.

The substance is a food additive. It is not subject of the CLP-regulation 1272/2008.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

GB

(Contd. on page 2)

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**Trade name: CO2 -Kapseln 16g f. Zapfanlagen SBBox**

(Contd. from page 1)

### **SECTION 3: Composition/information on ingredients**

- **3.1 Chemical characterisation: Substances**
- **CAS No. Designation:**  
124-38-9 carbon dioxide
- **Identification number(s):**
- **EC number:** 204-696-9
- **Description:** CO2-capsules for carbonation of beverages.

### **SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **General information** No special measures required.
- **After inhalation**  
Provide fresh air. Keep victims quiet and warm.  
Seek medical treatment in case of complaints.
- **After skin contact**  
In cases of freeze burns, rinse with plenty of water. Do not remove clothing.  
After frost burns flush at least 15 minutes with water. Cover sterile, consult doctor.
- **After eye contact**  
Keep eye lids open and rinse them with ample amounts of clean running water for at least 15 minutes.  
Remove contact lenses if possible.  
Call a doctor immediately.
- **After swallowing** Swallowing is not considered to be a possible way of exposure.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### **SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
The product itself does not burn.  
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
Pressure build-up and risk of bursting when heated.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Use a breathing apparatus that is independent of circulating air when being in closed rooms.
- **Additional information**  
Remove goods in stock from incendiary zone, if possible.  
Use water to keep fire exposed containers cool.

### **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- **6.2 Environmental precautions:**  
Prevent material from reaching sewage system, holes and cellars.
- **6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.

(Contd. on page 3)

# Safety data sheet

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Revision: 20.12.2016

**Trade name: CO<sub>2</sub> -Kapseln 16g f. Zapfanlagen SBBox**

(Contd. from page 2)

- **6.4 Reference to other sections**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Store in cool, dry place in tightly closed containers.  
Keep away from heat and direct sunlight.  
Use only in well ventilated areas.
- **Information about protection against explosions and fires:**  
Beware: Container is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use.  
Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**  
Store in cool location.  
Store only in the original container.
- **Information about storage in one common storage facility:** Do not store together with acids.
- **Further information about storage conditions:**  
Store in cool, dry conditions in a well ventilated area.
- **Storage class**  
2A (Compressed, liquidized and under pressure solved gases) according to TRGS 510 (German Regulation).
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
WEL: workplace exposure limit  
IOELV: Indicative Occupational Exposure Limit Values, workplace threshold value of the European Union

#### 124-38-9 carbon dioxide

WEL (Great Britain)	Short-term value: 27400 mg/m <sup>3</sup> , 15000 ppm Long-term value: 9150 mg/m <sup>3</sup> , 5000 ppm
IOELV (European Union)	Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm

- **8.2 Exposure controls**
- **Personal protective equipment**
- **Breathing equipment:** Not required.
- **Protection of hands:** No chemical-protective gloves required.
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

GB

(Contd. on page 4)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 20.12.2016

Version number 1

Revision: 20.12.2016

Trade name: CO<sub>2</sub> -Kapseln 16g f. Zapfanlagen SBBox

(Contd. from page 3)

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:** Compressed gas

**Colour:** Colourless

· **Odour:** Characteristic

· **pH-value:** Not determined.

· **Change in condition**

**Melting point/freezing point:** -57 °C (b.5,1 bar)

**Initial boiling point and boiling range:** -78.5 °C

· **Flash point:** Not applicable

· **Inflammability (solid, gaseous)** Extremely flammable liquefied gas.

· **Explosive properties:** Product is not explosive.

· **Critical values for explosion:**

**Lower:** Not determined.

**Upper:** Not determined.

· **Vapour pressure at 20 °C:** 57300 hPa

· **Density at 20 °C** 0.002 g/cm<sup>3</sup>

· **Solubility in / Miscibility with**

**Water:** Slightly soluble

· **Partition coefficient: n-octanol/water:** Not determined.

· **Viscosity:**

**dynamic:** Not determined.

**kinematic:** Not determined.

**Water:** 0.0 %

· **9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

· **10.2 Chemical stability**

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

· **10.3 Possibility of hazardous reactions** No dangerous reactions known

· **10.4 Conditions to avoid** No further relevant information available.

· **10.5 Incompatible materials:** No further relevant information available.

· **10.6 Hazardous decomposition products:** No dangerous decomposition products known

### SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity** Based on available data, the classification criteria are not met.

· **Primary irritant effect:**

· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

(Contd. on page 5)

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## according to 1907/2006/EC, Article 31

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Version number 1

Revision: 20.12.2016

**Trade name: CO2 -Kapseln 16g f. Zapfanlagen SBBox**

(Contd. from page 4)

- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** Does not accumulate in organisms
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Ensure cans are completely empty before recycling.

- **European waste catalogue**

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 05	gases in pressure containers other than those mentioned in 16 05 04

- **Uncleaned packagings:**
- **Recommendation:**  
Dispose of packaging according to regulations on the disposal of packagings.  
Empty containers are to be introduced to the scrap processing and/or to the reconditioning. Packing drums which are not duly emptied belong to hazardous waste.

### SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1013
- **14.2 UN proper shipping name**
- **ADR** 1013 CARBON DIOXIDE
- **IMDG, IATA** CARBON DIOXIDE

- **14.3 Transport hazard class(es)**

- **ADR**



- **Class** 2 2A Gases.

(Contd. on page 6)

**Safety data sheet**  
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Trade name: CO<sub>2</sub> -Kapseln 16g f. Zapfanlagen SBBox

(Contd. from page 5)

· <b>Label</b>	2.2
· <b>IMDG, IATA</b>	
	
· <b>Class</b>	2 Gases.
· <b>Label</b>	2
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b>	Not applicable.
· <b>14.6 Special precautions for user</b>	Warning: Gases.
· <b>Kemler Number:</b>	20
· <b>EMS Number:</b>	2-09
· <b>Stowage Category</b>	A
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	120 ml
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Transport category</b>	3
· <b>Tunnel restriction code</b>	C/E
· <b>Remarks:</b>	Special provision(s): 584
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	120 ml
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 1013 CARBON DIOXIDE, 2.2

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **National regulations**
- **Water hazard class:** Generally not hazardous for water.

#### · **Substances of very high concern (SVHC) according to REACH, Article 57**

Substance is not listed.

(Contd. on page 7)

**Safety data sheet**  
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**Trade name: CO2 -Kapseln 16g f. Zapfanlagen SBBox**

(Contd. from page 6)

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

· **Department issuing data specification sheet:**

This Material Safety Data Sheet has been drawn up in cooperation with:  
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,  
phone: (+49) 511 42079 - 0, reach@dekra.com.

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· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

GB