



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 08.08.2011

Version number 3

Revision: 08.08.2011

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

- **Product identifier**
- **Trade name:** BEGADI - Softair Gas - Light - 500 ml
- **Application of the substance / the preparation:** in accordance with product designation
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** Begadi GmbH
Dietinger Straße 23
D-78661 Böhringen

Phone: +49(0)7404/914410
Fax: +49(0)7404/914955
- **Further information obtainable from:** Department of product security / see chapter 16
- **Emergency telephone number:** Beratungsstelle bei Vergiftungen, Mainz
Tel. 0049 (0) 6131 / 19240

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Aerosol 1 H222 Extremely flammable aerosol.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



F+; Extremely flammable

R12: Extremely flammable.

- **Information concerning particular hazards for human and environment:** The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
Warning! Pressurized container.
- **Classification system:** The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:** The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:** F+ Extremely flammable
- **Risk phrases:** 12 Extremely flammable.
- **Safety phrases:** 2 Keep out of the reach of children.
33 Take precautionary measures against static discharges.
51 Use only in well-ventilated areas.
56 Dispose of this material and its container to hazardous or special waste collection point.

(Contd. on page 2)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 08.08.2011

Version number 3

Revision: 08.08.2011

Trade name: **BEGADI - Softair Gas - Light - 500 ml**

(Contd. of page 1)

- **Special labelling of certain preparations:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material.
Buildup of explosive mixtures possible without sufficient ventilation.

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane F+ R12 Flam. Gas 1, H220; Press. Gas, H280	50-100%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane F+ R12 Flam. Gas 1, H220; Press. Gas, H280	25-50%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **Description of first aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet

(Contd. on page 3)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 08.08.2011

Version number 3

Revision: 08.08.2011

Trade name: **BEGADI - Softair Gas - Light - 500 ml**

(Contd. of page 2)

- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:** Ensure adequate ventilation.
- **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 disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Open and handle receptacle with care.
- **Information about fire - and explosion protection:** Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
Do not seal receptacle gas tight.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

(Contd. on page 4)



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

Printing date 08.08.2011

Version number 3

Revision: 08.08.2011

Trade name: **BEGADI - Softair Gas - Light - 500 ml**

(Contd. of page 3)

- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.
Filter A/P2
- **Protection of hands:**
- **Material of gloves** Butyl rubber, BR
- **Penetration time of glove material** The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **As protection from splashes gloves made of the following materials are suitable:** PVC or PE gloves
- **Eye protection:**



Protective gloves



Tightly sealed goggles

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Aerosol
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.
- **pH-value:** Not determined.
- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	-44°C
- **Flash point:** -97°C
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 365°C
- **Decomposition temperature:** Not determined.
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

(Contd. on page 5)

EU



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 08.08.2011

Version number 3

Revision: 08.08.2011

Trade name: **BEGADI - Softair Gas - Light - 500 ml**

(Contd. of page 4)

· Explosion limits:	
Lower:	1,5 Vol %
Upper:	10,9 Vol %
· Vapour pressure at 20°C:	8300 hPa
· Density at 20°C:	0,55 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Segregation coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	100,0 %
· Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity	
· Chemical stability	
· Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
· Possibility of hazardous reactions	No dangerous reactions known.
· Conditions to avoid	No further relevant information available.
· Incompatible materials:	No further relevant information available.
· Hazardous decomposition products:	No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects	
· Acute toxicity:	
· Primary irritant effect:	
on the skin:	No irritant effect.
on the eye:	No irritating effect.
· Sensitization:	No sensitizing effects known.

12 Ecological information

· Toxicity	
· Acquatic toxicity:	No further relevant information available.
· Persistence and degradability	No further relevant information available.
· Behaviour in environmental systems:	
Bioaccumulative potential	No further relevant information available.
Mobility in soil	No further relevant information available.
· Additional ecological information:	
· General notes:	Generally not hazardous for water

(Contd. on page 6)



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

Printing date 08.08.2011

Version number 3

Revision: 08.08.2011

Trade name: **BEGADI - Softair Gas - Light - 500 ml**

(Contd. of page 5)

- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations


- **Waste treatment methods**
- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.


- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **ADR, IMDG, IATA** UN1950

- **UN proper shipping name**
- **ADR** 1950 AEROSOLS
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable

- **Transport hazard class(es)**
- **ADR**
- 
- **Class** 2 5F Gases.
- **Label** 2.1

- **IMDG, IATA**
- 
- **Class** 2.1
- **Label** 2.1

- **Packing group**
- **ADR, IMDG, IATA** Void

- **Environmental hazards:**
- **Marine pollutant:** No

- **Special precautions for user** Warning: Gases.
- **Danger code (Kemler):** -
- **EMS Number:** F-D,S-U

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

- **Transport/Additional information:**

- **ADR**
- **Tunnel restriction code** D

(Contd. on page 7)



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

Printing date 08.08.2011

Version number 3

Revision: 08.08.2011

Trade name: BEGADI - Softair Gas - Light - 500 ml

(Contd. of page 6)

UN "Model Regulation": UN1950, AEROSOLS, 2.1**15 Regulatory information****Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases**
 - H220 Extremely flammable gas.
 - H280 Contains gas under pressure; may explode if heated.
 - R12 Extremely flammable.
- Department issuing MSDS:** Sales department
- Contact:** Mr. Digeser
- 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)
 - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 - IMDG: International Maritime Code for Dangerous Goods
 - IATA: International Air Transport Association
 - ICAO: International Civil Aviation Organization
 - GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 - VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)
 - VOC: Volatile Organic Compounds (USA, EU)
- * Data compared to the previous version altered.**