

**BIZERBA****SAFETY DATA SHEET****BIZERBA Compressed Air Cleaner**

SDS according to Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II-EU

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

Date issued 29.01.2015

Revision date 13.01.2015

1.1. Product identifier

Product name BIZERBA Compressed Air Cleaner

Specification No. L1000000010

Article no. 94008900260 (150mL), 94008900168 (400mL)

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

Product group Aerosols

Use of the substance/preparation Computer cleaning

Relevant identified uses SU21 Consumer uses: Private households (= general public = consumers)

SU22 Professional uses: publicly accessible (administration, education, entertainment, services, craftsmen)

PC35 Washing and cleaning products (including solvent based products)

PROC11 Non-industrial spraying

ERC8A Wide dispersive indoor use of processing aids in open systems

ERC8D Wide dispersive outdoor use of processing aids in open systems

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet**Distributor**

Company name Kleinmann GmbH

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Postcode D-72820

City Sonnenbuehl

Country Germany

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Fax +49(0)7128/9292-415

E-mail chemie@kleinmann.net

Website <http://www.kleinmann.net>

Enterprise no. DE 146 487

1.4. Emergency telephone number

Emergency telephone 8-12, Mo.-Fr.:+49(0)7128/9292-15

SECTION 2: Hazards identification**2.1. Classification of substance or mixture**

Classification according to H229;

Regulation (EC) No 1272/2008

[CLP/GHS]

Other Information No information required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Improper extinguishing media Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards Aerosol containers can explode when heated, due to excessive pressure build-up. Gases that are dangerous to health may be formed in a fire: carbon monoxide (CO) , carbon dioxide (CO₂) , Hydrogen fluoride (HF).

5.3. Advice for firefighters

Personal protective equipment Wear personal protective equipment, see section 8. Avoid breathing of combustion gases. Wear self contained breathing apparatus during fire fighting.

Fire fighting procedures Containers close to fire should be removed immediately or cooled with water. Prevent release of fire control water to sewer, surface water or ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures Provide good ventilation. For personal protection, see section 8. In case of spills, beware of slippery floors and surfaces.

6.2. Environmental precautions

Environmental precautionary measures Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.

6.3. Methods and material for containment and cleaning up

Cleaning method Collect spillage with shovel, broom or the like and reuse, if possible. For waste disposal, see section 13.

6.4. Reference to other sections

Other instructions See section 8 and section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling Avoid contact with skin and eyes. Provide good ventilation. Do not eat, drink or smoke when using the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. In dichtgeschlossenen Behältern an einem kühlen, trockenen und gut belüfteten Ort lagern. Always store proper, out of the reach of children and not together with food, feed, medicine and the like.

Conditions for safe storage

Storage Temperature Value: < 50 °C

7.3. Specific end use(s)

Specific use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limit values

Substance	Identification	Value	TWA Year
1,1,1,2-Tetrafluorethan - HFC 134a	CAS no.: 811-97-2		

	EC no.: 212-377-0		
Dimethyl ether	CAS no.: 115-10-6	8-hour TWA: 400 ppm	2011
	EC no.: 204-065-8	8-hour TWA: 766 mg/m ³	
	Index no.: 603-019-00-8	15 min.: 500 ppm	
	Synonyms: Dimethyl ether	15 min.: 958 mg/m ³	

8.2. Exposure controls

Limitation of exposure on workplace Well-ventilated area.

Respiratory protection

Respiratory protection Respiratory protection is not required for normal use. If ventilation is insufficient, use a respirator with type A (EN 141) gas filter.

Hand protection

Hand protection Gloves are recommended if splashes or direct contact occur. Gloves are recommended for prolonged use.

Eye / face protection

Eye protection Goggles/face shield are recommended. (EN 166).

Other Information

Other Information Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and wash the skin thoroughly with soap and water after work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Aerosol.
Colour	Colourless.
Odour	Slight odour.
Comments, pH (as supplied)	Not relevant.
Comments, pH (aqueous solution)	Not relevant.
Comments, Melting point / melting range	No data recorded.
Comments, Boiling point / boiling range	No data recorded.
Comments, Flash point	No data recorded.
Comments, Evaporation rate	No data recorded.
Flammability (solid, gas)	No data recorded.
Comments, Explosion limit	No data recorded.
Comments, Vapour pressure	No data recorded.
Comments, Vapour density	No data recorded.
Specific gravity	Value: ~ 1,00 g/ml
Solubility description	Insoluble in water.
Comments, Partition coefficient: n-octanol / water	No data recorded.
Comments, Spontaneous combustability	No data recorded.
Comments, Decomposition temperature	No data recorded.
Comments, Viscosity	No data recorded.
Explosive properties	Not explosive.
Oxidising properties	Does not meet the criteria for oxidising.

9.2. Other information

Other physical and chemical properties

Comments No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions See section 10.4 and section 10.5.

10.4. Conditions to avoid

Conditions to avoid Avoid exposing aerosol containers to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Avoid contact with oxidising agents (e.g. nitric acid, peroxides and chromates). Avoid alkalis, strong acids and heat. Polymerizes (exothermic) at contact with water, alcohols and alkalies.

10.6. Hazardous decomposition products

Hazardous decomposition products Gases that are dangerous to health may be formed in a fire: carbon monoxide (CO) , carbon dioxide (CO₂) , Hydrogen fluoride (HF).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological Information:

Other toxicological data Toxicological tests on the product has not been performed.

Toxicological data for substances

Potential acute effects

Inhalation When working extensively on big surfaces in small and badly ventilated rooms, vapours may develop in concentrations which may cause malaise such as headache, dizziness and nausea. Vapours may cause smarting in the nose and throat, and also sneezing and coughing.

Skin contact Skin contact may cause redness, smarting and itching.

Eye contact Steam or splashed in the eyes may redness, pain and discomfort.

Ingestion Consumption of larger quantities can result in nausea, vomiting and stomach pains.

Symptoms of Exposure

Symptoms of overexposure No specific symptoms noted.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity It is unlikely that the substance will dissolve in water in amounts big enough to have a toxic effect on fish and daphnies.

Aquatic, comments No data available for the product.

Toxicological data for substances

Substance 1,1,1,2-Tetrafluorethan - HFC 134a

Other negative effects Ozone Depleting Potential (ODP): 0.
Global Warming Potential (GWP): 1300.

12.2. Persistence and degradability

Persistence and degradability The product is not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation: Is not expected to be bioaccumulable.

12.4. Mobility in soil

Mobility The product is insoluble in water and will sediment in water systems.

12.5. Results of PBT and vPvB assessment

PBT assessment results This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Environmental details, summation For this product no classification is required for environmental hazards.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point. Dispose of waste and residues in accordance with local authority requirements. -
Product classified as hazardous waste	Yes
Packaging classified as hazardous waste	Yes
EWC waste code	EWC: 150110 packaging containing residues of or contaminated by dangerous substances
Other Information	Waste code applies to product remnants in pure form. When handling waste, consideration should be made to the safety precautions applying to handling of the product.

SECTION 14: Transport information

14.1. UN number

ADR	1950
RID	1950
IMDG	1950
ICAO/IATA	1950

14.2. UN proper shipping name

ADR	AEROSOLS
RID	AEROSOLS
IMDG	AEROSOLS
ICAO/IATA	AEROSOLS, NON-FLAMMABLE

14.3. Transport hazard class(es)

ADR	2.2
RID	2.2
IMDG	2.2
ICAO/IATA	2.2

14.4. Packing group

Comments Not relevant.

14.5. Environmental hazards

14.6. Special precautions for user

EmS F-D, S-U

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Additional information.

Additional information. Not relevant.

SECTION 15: Regulatory information

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

EEC-directive	Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC.
Other Label Information	For professional users only. Safety data sheet available for professional user on request. As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.
Legislation and regulations	The Aerosol Dispensers Regulations 2009 (SI 2824), with amendments. EH40/2005, Workplace exposure limits 2005, with amendments. Regulation EC 2037/2000 on substances that deplete the ozone layer. The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895). Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.
Comments	-

15.2. Chemical safety assessment

Chemical safety assessment performed	No
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SECTION 16: Other information

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	; H229;
List of relevant R-phrases (under headings 2 and 3).	R12 Extremely flammable.
List of relevant H-phrases (Section 2 and 3).	H220 Extremely flammable gas. H229 Pressurised container: May burst if heated.
Training advice	No particular training or education is required but the user must be familiar with this SDS.
Information which has been added, deleted or revised	New safety data sheet.
Version	1
Responsible for safety data sheet	Kleinmann GmbH
Prepared by	IB