

Page 1 of 11 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 30.05.2023 / 0012 Replacing version dated / version: 01.11.2021 / 0011 Valid from: 30.05.2023 PDF print date: 01.09.2023 Klimaanlagenreiniger A/C System Cleaner (Spray)

# Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

## **1.1 Product identifier**

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# Klimaanlagenreiniger A/C System Cleaner (Spray)

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

Biocide Uses advised against:

No information available at present.

## 1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH Jerg-Wieland-Str. 4 89081 Ulm-Lehr Tel.: (+49) 0731-1420-0 Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number Emergency information services / official advisory body:

**Telephone number of the company in case of emergencies:** +49 (0) 700 / 24 112 112 (LMR) +1 872 5888271 (LMR)

**SECTION 2: Hazards identification** 

2.1 Classification of the substance or mixtureClassification according to Regulation (EC) 1272/2008 (CLP)Hazard classHazard categoryHazard statementAerosol3H229-Pressurised of H229-Pressurised of

H229-Pressurised container: May burst if heated.

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP) Warning

H229-Pressurised container: May burst if heated.

P102-Keep out of reach of children.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P251-Do not pierce or burn, even after use.

P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.



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Without adequate ventilation, formation of explosive mixtures may be possible.

#### 2.3 Other hazards

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The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

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

#### 3.1 Substances

#### n.a. 3.2 Mixtures

Bronopol (INN)	
Registration number (REACH)	
Index	603-085-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	200-143-0
CAS	52-51-7
content %	0,18
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H312
	Acute Tox. 4, H302
	Skin Irrit. 2, H315
	Eye Dam. 1, H318
	STOT SE 3, H335
	Aquatic Acute 1, H400 (M=10)

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area. Supply person with fresh air.

#### Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

#### Eye contact

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Medical attention recommended.

#### 4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

# **4.3** Indication of any immediate medical attention and special treatment needed n.c.

## **SECTION 5: Firefighting measures**



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# 5.1 Extinguishing media

Suitable extinguishing media Adapt to the nature and extent of fire.

#### Unsuitable extinguishing media n.c.

## 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon

## 5.3 Advice for firefighters

For personal protective equipment see Section 8. Protective respirator with independent air supply. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

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

# 6.1 Personal precautions, protective equipment and emergency procedures

# 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Ensure sufficient supply of air. Avoid contact with eyes.

# 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

## 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Do not pour down the drain undiluted.

#### 6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available. Active substance:

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

#### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

#### **SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

#### 7.1 Precautions for safe handling 7.1.1 General recommendations

Observe directions on label and instructions for use. Ensure sufficient ventilation.

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

# 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Observe special regulations for aerosols!

Keep protected from direct sunlight and temperatures over 50°C.



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#### 7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

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# 8.2 Exposure controls8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

#### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Rubber gloves (EN ISO 374). Minimum layer thickness in mm: 0,65

Permeation time (penetration time) in minutes: 240

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: Normally not necessary.

Thermal hazards: If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

#### 8.2.3 Environmental exposure controls

No information available at present.

## **SECTION 9: Physical and chemical properties**



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#### 9.1 Information on basic physical and chemical properties

Physical state: Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lower explosion limit: Upper explosion limit: Flash point: Auto-ignition temperature: Decomposition temperature: pH: Kinematic viscosity: Solubility: Partition coefficient n-octanol/water (log value): Vapour pressure: Density and/or relative density: Relative vapour density: Particle characteristics:

## 9.2 Other information

Explosives: Oxidising liquids: Aerosol. Active substance: liquid. Colourless Characteristic There is no information available on this parameter. There is no information available on this parameter. Does not apply to aerosols. There is no information available on this parameter. There is no information available on this parameter. Does not apply to aerosols. Does not apply to aerosols. There is no information available on this parameter. Does not apply to aerosols. Soluble Does not apply to mixtures. 6600 hPa 1 g/ml Does not apply to aerosols. Does not apply to aerosols.

There is no information available on this parameter. No

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

See also Subsection 10.2 to 10.6. The product has not been tested.

#### **10.2 Chemical stability** See also Subsection 10.1 to 10.6.

# 10.3 Possibility of hazardous reactions

See also Subsection 10.1 to 10.6. No decomposition if used as intended.

#### 10.4 Conditions to avoid

See also section 7. Pressure increase will result in danger of bursting.

Pressurized container:

#### Heating

# 10.5 Incompatible materials

No dangerous reactions are known.

#### 10.6 Hazardous decomposition products

See also Subsection 10.1 to 10.5.

No decomposition when used as directed.

## **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Possibly more information on health effects, see Section 2.1 (classification).

Klimaanlagenreiniger						
A/C System Cleaner (Spray)						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.

protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.



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Klimaanlagenreiniger				
A/C System Cleaner (Spray)				
Respiratory or skin				n.d.a.
sensitisation:				
Germ cell mutagenicity:				n.d.a.
Carcinogenicity:				n.d.a.
Reproductive toxicity:			 	n.d.a.
Specific target organ toxicity -				n.d.a.
single exposure (STOT-SE):				
Specific target organ toxicity -				n.d.a.
repeated exposure (STOT-RE):				
Aspiration hazard:				n.d.a.
Symptoms:				n.d.a.
Bronopol (INN)				

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	305	mg/kg	Rat	OECD 401 (Acute Oral	data of a diluted
					Toxicity)	aequous solution
Acute toxicity, by dermal route:	LD50	1600	mg/kg	Rat		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Irritant
Serious eye damage/irritation:				Rabbit	(Draize-Test)	Risk of serious damage to eyes.
Specific target organ toxicity - single exposure (STOT-SE):						May cause respiratory irritation.
Symptoms:						eyes, reddened, drowsiness, coughing, mucous membrane
						irritation, nausea and vomiting.

## **11.2. Information on other hazards**

Klimaanlagenreiniger A/C System Cleaner (Spray)							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Endocrine disrupting properties:						Does not apply	
						to mixtures.	
Other information:						No other	
						relevant	
						information	
						available on	
						adverse effects	
						on health.	

# SECTION 12: Ecological information

Klimaanlagenreiniger							
A/C System Cleaner (Spr	ay)						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and							n.d.a.
degradability:							
12.3. Bioaccumulative							n.d.a.
potential:							
12.4. Mobility in soil:							n.d.a.



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12.5. Results of PBT and vPvB assessment			n.d.a.
12.6. Endocrine			Does not apply
disrupting properties:			to mixtures.
12.7. Other adverse			No information
effects:			available on
			other adverse
			effects on the
			environment.

Bronopol (INN)							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	35,7	mg/l	Lepomis macrochirus		
12.1. Toxicity to fish:	LC50	96h	41,2	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to daphnia:	EC50	48h	1,4	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	0,4 - 2,8	mg/l	Pseudokirchneriell a subcapitata		
12.2. Persistence and degradability:	DOC		50	%		ISO 9888	Biodegradable
12.3. Bioaccumulative potential:	Log Pow		0,18- 0,22				Not accepted due to the log Pow - value.
12.3. Bioaccumulative potential:	BCF		3,16				
Toxicity to bacteria:	EC50	16h	>50	mg/l	Pseudomonas putida		

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

16 05 05 gases in pressure containers other than those mentioned in 16 05 04

Recommendation: Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. dispose at suitable refuse site.

# For contaminated packing material

Pay attention to local and national official regulations. 15 01 04 metallic packaging Recycling Do not perforate, cut up or weld uncleaned container.

# **SECTION 14: Transport information**

General statements	
Transport by road/by rail (ADR/RID)	
14.1. UN number or ID number:	1950
14.2. UN proper shipping name:	
UN 1950 AEROSOLS	
14.3. Transport hazard class(es):	2.2
14.4. Packing group:	-
14.5. Environmental hazards:	Not applicable
Tunnel restriction code:	E





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Classification code:

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#### LQ: Transport category: Transport by sea (IMDG-code)

14.1. UN number or ID number:
14.2. UN proper shipping name:
UN 1950 AEROSOLS
14.3. Transport hazard class(es):
14.4. Packing group:
14.5. Environmental hazards:
Marine Pollutant:
EmS:

#### Transport by air (IATA)

14.1. UN number or ID number:
14.2. UN proper shipping name:
UN 1950 Aerosols, non-flammable
14.3. Transport hazard class(es):
14.4. Packing group:
14.5. Environmental hazards:

#### 14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained. All persons involved in transporting must observe safety regulations. Precautions must be taken to prevent damage.

# 14.7. Maritime transport in bulk according to IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable. Minimum amount regulations have not been taken into account. Danger code and packing code on request.

Comply with special provisions.

# **SECTION 15: Regulatory information**

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1950

2.2

1950

2.2

Not applicable

Not applicable F-D, S-U

Not applicable

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

0 %

Observe restrictions: Comply with trade association/occupational health regulations.

#### Directive 2010/75/EU (VOC): **REGULATION (EC) No 648/2004** disinfectants

Additional data acc. to Art. 69 (2), Regulation (EU) No 528/2012 (Biocide products): The identity of every active substance and its concentration in metric units: Bronopol (INN) 0,18 g/100 g Registration number BAuA (Federal Institute for Occupational Health and Safety, Germany): baua:Reg.-Nr. N-10278 Type of mixture: Ready for use liquid Biocidal product authorisation number (Regulation (EU) No. 528/2012): n.d.a. The uses: Disinfection Observe Regulation (EU) No 528/2012 concerning the placing of biocidal products on the market.

National requirements/regulations on safety and health protection must be applied when using work equipment.

## 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

**SECTION 16: Other information** 



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Revised sections: 1 Employee training in handling dangerous goods is required. These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.

# Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Aerosol 3, H229	Classification based on test data.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.

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Aerosol — Aerosols Acute Tox. — Acute toxicity - dermal Acute Tox. — Acute toxicity - oral Skin Irrit. — Skin irritation Eye Dam. — Serious eye damage STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation Aquatic Acute — Hazardous to the aquatic environment - acute

#### Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

#### Any abbreviations and acronyms used in this document:

acc., acc. to according, according to Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the ADR International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approx. approximately Art., Art. no. Article number ASTM ASTM International (American Society for Testing and Materials) Acute Toxicity Estimate ATF Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) **Bioconcentration factor** BCF BSEF The International Bromine Council body weight bw CAS **Chemical Abstracts Service** 



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TOC Total organic carbon UN RTDG United Nations Recommendations on the Transport of Dangerous Goods VOC Volatile organic compounds vPvB very persistent and very bioaccumulative wet weight wwt

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

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These statements were made by: Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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