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

Revision date / version: 01.11.2021 / 0008

Replacing version dated / version: 09.04.2020 / 0007

Valid from: 01.11.2021 PDF print date: 01.11.2021 Klimaanlagenreiniger 2K

# 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

# Klimaanlagenreiniger 2K

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

Air conditioning cleaner

#### **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:

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# 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 mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class Hazard category Hazard statement

Skin Sens. 1 H317-May cause an allergic skin reaction.

# 2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)





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H317-May cause an allergic skin reaction.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

P261-Avoid breathing vapours or spray. P280-Wear protective gloves.

P333+P313-If skin irritation or rash occurs: Get medical advice / attention.

P501-Dispose of contents / container to an approved waste disposal facility.

2-methylisothiazol-3(2H)-one

#### 2.3 Other hazards

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**

Diethanolamine	
Registration number (REACH)	01-2119488930-28-XXXX
Index	603-071-00-1
EINECS, ELINCS, NLP, REACH-IT List-No.	203-868-0
CAS	111-42-2
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	Skin Irrit. 2, H315
	Eye Dam. 1, H318
	Repr. 2, H361fd
	STOT RE 2, H373 (central nervous system, kidneys, liver,
	blood) (oral)

2-methylisothiazol-3(2H)-one	
Registration number (REACH)	
Index	613-326-00-9
EINECS, ELINCS, NLP, REACH-IT List-No.	220-239-6
CAS	2682-20-4
content %	0,0015-<0,01
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH071
	Acute Tox. 2, H330
	Acute Tox. 3, H301
	Acute Tox. 3, H311
	Skin Corr. 1B, H314
	Eye Dam. 1, H318
	Skin Sens. 1A, H317
	Aquatic Acute 1, H400 (M=10)
	Aquatic Chronic 1, H410 (M=1)
Specific Concentration Limits and ATE	Skin Sens. 1A, H317: 0,0015 %

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.

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



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#### 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

Supply person with fresh air and consult doctor according to symptoms.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

#### **Eve contact**

Remove contact lenses.

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

#### Ingestion

Rinse the mouth thoroughly with water.

Give copious water to drink - consult doctor immediately.

# 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**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Water jet spray/foam/CO2/dry extinguisher

#### Unsuitable extinguishing media

None known

# 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Toxic gases

#### 5.3 Advice for firefighters

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

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 or skin.

If applicable, caution - risk of slipping.

# 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.



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Resolve leaks if this possible without risk.

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

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

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

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

#### 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

Avoid contact with eyes or skin.

Ensure good ventilation.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

#### 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.

Store product closed and only in original packing.

Protect from frost.

#### 7.3 Specific end use(s)

No information available at present.

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

### 8.1 Control parameters

Diethanolamine Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
approaction	Environmental		20001101			
	compartment					
	Environment - sewage		PNEC	100	mg/l	
	treatment plant					
	Environment - sediment,		PNEC	0,092	mg/kg dry	
	freshwater				weight	
	Environment - marine		PNEC	0,002	mg/l	
	Environment - sediment,		PNEC	0,0092	mg/kg dry	
	marine				weight	
	Environment - freshwater		PNEC	0,02	mg/l	
	Environment - soil		PNEC	1,63	mg/kg dry	
					weight	
	Environment - water,		PNEC	0,095	mg/l	
	sporadic (intermittent)					
	release					
	Environment - oral (animal		PNEC	1,04	mg/kg feed	
	feed)					
Consumer	Human - inhalation	Long term, local effects	DNEL	0,125	mg/m3	



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Consumer	Human - dermal	Long term, systemic effects	DNEL	0,07	mg/kg body weight/day
Consumer	Human - oral	Long term, systemic effects	DNEL	0,06	mg/kg body weight/day
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,125	mg/m3
Workers / employees	Human - inhalation	Long term, local effects	DNEL	1	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,13	mg/kg body weight/day
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	33	mg/m3
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,75	mg/m3
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,5	mg/m3

#### 8.2 Exposure controls

#### 8.2.1 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 (EN 166) with side protection, with danger of splashes.

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

Recommended

Protective gloves made of natural rubber latex (EN ISO 374).

Minimum layer thickness in mm:

0,5

Permeation time (penetration time) in minutes:

480

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.

Protective hand cream recommended.

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:

Not applicable

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.



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#### 8.2.3 Environmental exposure controls

No information available at present.

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

No

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

Physical state: Liquid Colour: Colourless Odour: Characteristic

Melting point/freezing point: There is no information available on this parameter.

Boiling point or initial boiling point and boiling range: 100 °C

Not combustible. Flammability:

Lower explosion limit: There is no information available on this parameter. Upper explosion limit: There is no information available on this parameter. Flash point:

Auto-ignition temperature:

Decomposition temperature: There is no information available on this parameter.

7,5-8 (20°C)

Kinematic viscosity: There is no information available on this parameter. Solubility:

Mixable

Does not apply to mixtures. Partition coefficient n-octanol/water (log value):

Vapour pressure: 23 hPa (20°C) Density and/or relative density: 1 g/cm3 (20°C)

Relative vapour density: There is no information available on this parameter.

Particle characteristics: Does not apply to liquids.

9.2 Other information

Explosives: Product is not explosive.

Oxidising liquids: No

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

#### 10.1 Reactivity

Not to be expected

pH:

#### 10.2 Chemical stability

Stable with proper storage and handling.

# 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

#### 10.4 Conditions to avoid

See also section 7.

None known

# 10.5 Incompatible materials

None known

# 10.6 Hazardous decomposition products

See also section 5.2

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 2K						
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.



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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.

Diethanolamine	Endneint	Value	l ln:4	Organism	Tost mothed	Notes
Toxicity / effect	Endpoint		Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1600	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by inhalation:	LC0	0,2	mg/l	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Dam. 1
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative Escherichia coli
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Carcinogenicity:	NOAEL	32	mg/kg bw/d	Rat	OECD 451 (Carcinogenicity Studies)	
Reproductive toxicity:	NOAEL	~12,75	mg/kg	Rat	OECD 443 (Extended One-Generation Reproductive Toxicity Study)	Possible risk of harm to the unborn child.
Reproductive toxicity:	NOAEL	~37,68	mg/kg/d	Rat	OECD 443 (Extended One-Generation Reproductive Toxicity Study)	Possible risk of impaired fertility
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	LOAEL	14	mg/kg bw/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Target organ(s): liver, Target organ(s): blood, Target organ(s): cardiovascular system, Female
Symptoms:						breathing difficulties, respiratory distress, diarrhoea, coughing, gastrointestinal disturbances, mucous membrane irritation

2-methylisothiazol-3(2H)-one						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	285	mg/kg	Rat		



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Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	
Symptoms:					mucous
					membrane
					irritation,
					watering eyes

#### 11.2. Information on other hazards

Klimaanlagenreiniger 2K	Klimaanlagenreiniger 2K								
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 2K 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 degradability:							The surfactant(s) contained in this mixture complies(comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or a detergent manufacturer. n.d.a.
potential:							
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Endocrine disrupting properties:							Does not apply to mixtures.



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12.7. Other adverse		No information
effects:		available on
		other adverse
		effects on the
		environment.

Diethanolamine							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
12.1. Toxicity to fish:	LC50	96h	1460	mg/l	Pimephales		
					promelas		
12.1. Toxicity to daphnia:	EC10	21d	1,05	mg/l	Daphnia magna		
12.2. Persistence and		28d	93%		activated sludge	OECD 301 F	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Manometric	
						Respirometry Test)	
12.1. Toxicity to daphnia:	EC50	48h	55	mg/l	Daphnia magna	U.S. EPA-660/3-	
						75-009	
12.3. Bioaccumulative	Log Pow		-2,46			OECD 107	
potential:						(Partition	
						Coefficient (n-	
						octanol/water) -	
						Shake Flask	
						Method)	
12.1. Toxicity to algae:	EC50	96h	19	mg/l	Pseudokirchneriell	U.S. EPA	
					a subcapitata	ECOTOX	
						Database	
12.1. Toxicity to algae:	EC10	72h	1,1	mg/l	Pseudokirchneriell	U.S. EPA	
					a subcapitata	ECOTOX	
						Database	
Toxicity to bacteria:	EC10	30min	>1000	mg/l	activated sludge	OECD 209	
						(Activated Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium	
						Oxidation))	
Other organisms:	LC50	35d	>1000	mg/kg	Eisenia foetida		
Other organisms:	EC50	>60d	776	mg/kg	Eisenia foetida		

2-methylisothiazol-3(2F	l)-one						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and degradability:	DOC		>70	%		OECD 309 (Aerobic Mineralisation in Surface Water - Simulation Biodegradation Test)	
12.3. Bioaccumulative potential:	Log Kow		-0,32			OECD 117 (Partition Coefficient (n- octanol/water) - HPLC method)	
12.1. Toxicity to fish:	LC50	96h	6	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	LC50	96h	12,4	mg/l	Lepomis macrochirus		



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12.1. Toxicity to daphnia:	EC50	48h	1,68	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)
12.1. Toxicity to algae:	EC50	72h	0,445	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)
Toxicity to bacteria:	EC50	16h	2,3	mg/l	Pseudomonas putida	
Toxicity to bacteria:	EC20	3h	34,6	mg/l	activated sludge	

# **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)

07 06 01 aqueous washing liquids and mother liquors

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

#### For contaminated packing material

Pay attention to local and national official regulations.

Recommendation:

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

15 01 02 plastic packaging

# **SECTION 14: Transport information**

#### **General statements**

14.1. UN number or ID number: n.a.

#### Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

14.3. Transport hazard class(es):n.a.14.4. Packing group:n.a.Classification code:n.a.LQ:n.a.

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

#### Transport by sea (IMDG-code)

14.2. UN proper shipping name:

14.3. Transport hazard class(es):n.a.14.4. Packing group:n.a.Marine Pollutant:n.a

14.5. Environmental hazards:

Not applicable

#### Transport by air (IATA)

14.2. UN proper shipping name:

14.3. Transport hazard class(es):
14.4. Packing group:
n.a.

14.5. Environmental hazards: Not applicable

#### 14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.



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#### 14.7. Maritime transport in bulk according to IMO instruments

Non-dangerous material according to Transport Regulations.

# **SECTION 15: Regulatory information**

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)! Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

0 %

#### REGULATION (EC) No 648/2004

less than 5 % anionic surfactants non-ionic surfactants

BENZISOTHIAZOLINONE LAURYLAMINE DIPROPYLENEDIAMINE METHYLISOTHIAZOLINONE

Treated goods as per Regulation (EU) No. 528/2012 must display specific information on the label.

Please note Article 58 paragraph (3) subparagraph 2 of Regulation (EU) No. 528/2012.

Approval of the biocidal active substance may mean that special conditions are required for marketing the treated goods.

These are indicated in the approval of the active substance.

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

#### **SECTION 16: Other information**

Revised sections:

1-16

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
Skin Sens. 1, H317	Classification according to calculation procedure.

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).

H330 Fatal if inhaled.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

H317 May cause an allergic skin reaction.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.



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Skin Sens. — Skin sensitization Acute Tox. — Acute toxicity - oral

Skin Irrit. — Skin irritation

Eye Dam. — Serious eye damage Repr. — Reproductive toxicity

STOT RE — Specific target organ toxicity - repeated exposure Acute Tox. — Acute toxicity - inhalation

Acute Tox. — Acute toxicity - inhalatic Acute Tox. — Acute toxicity - dermal

Skin Corr. — Skin corrosion

Aquatic Acute — Hazardous to the aquatic environment - acute Aquatic Chronic — Hazardous to the aquatic environment - chronic

# 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

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the 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)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BSEF The International Bromine Council

bw body weight

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level
DNEL Derived No Effect Level
DOC Dissolved organic carbon

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

EC European Community
ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ErCx, E $\mu$ Cx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)

etc. et cetera EU European Union

EVAL Ethylene-vinyl alcohol copolymer



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Fax. Fax number

gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

IARC International Agency for Research on Cancer IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

Log Koc Logarithm of adsorption coefficient of organic carbon in the soil Log Kow, Log Pow Logarithm of octanol-water partition coefficient

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable n.av. not available n.c. not checked n.d.a. no data available

NIOSH National Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Fundamental Production and Restriction of Chemicals)

Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

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

wwt wet weight

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.

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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# 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

# Klimaanlagenreiniger 2K

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

Air conditioning cleaner

#### **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) 0731-1420-0 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 mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class Hazard category Hazard statement

Flam. Liq. 3 H226-Flammable liquid and vapour.

Skin Irrit. 2 H315-Causes skin irritation.

Skin Sens. 1 H317-May cause an allergic skin reaction.

Aquatic Chronic 3 H412-Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



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#### Warning

H226-Flammable liquid and vapour. H315-Causes skin irritation. H317-May cause an allergic skin reaction. H412-Harmful to aquatic life with long lasting effects.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261-Avoid breathing vapours or spray. P273-Avoid release to the environment. P280-Wear protective gloves.

P333+P313-If skin irritation or rash occurs: Get medical advice / attention.

P501-Dispose of contents / container to an approved waste disposal facility.

Citral (R)-p-mentha-1,8-diene cineole p-mentha-1,4(8)-diene Pin-2(3)-ene

#### 2.3 Other hazards

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

(R)-p-mentha-1,8-diene	
Registration number (REACH)	
Index	601-096-00-2
EINECS, ELINCS, NLP, REACH-IT List-No.	227-813-5
CAS	5989-27-5
content %	10-<25
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 3, H226
	Skin Irrit. 2, H315
	Skin Sens. 1B, H317
	Asp. Tox. 1, H304
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 3, H412

Citral		
Registration number (REACH)		
Index	605-019-00-3	
EINECS, ELINCS, NLP, REACH-IT List-No.	226-394-6	
CAS	5392-40-5	
content %	1-<5	



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Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Irrit. 2, H315
	Skin Sens. 1, H317

p-mentha-1,4(8)-diene	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	209-578-0
CAS	586-62-9
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Sens. 1B, H317
	Asp. Tox. 1, H304
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)

7-methyl-3-methyleneocta-1,6-diene	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	204-622-5
CAS	123-35-3
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 3, H226
	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	Asp. Tox. 1, H304
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 2, H411

Pin-2(3)-ene	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	201-291-9
CAS	80-56-8
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 3, H226
	Acute Tox. 4, H302
	Skin Irrit. 2, H315
	Skin Sens. 1B, H317
	Asp. Tox. 1, H304
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)

cineole	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	207-431-5
CAS	470-82-6
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 3, H226
	Skin Sens 1B H317

Camphene	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	201-234-8
CAS	79-92-5
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Sol. 1, H228
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)

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.



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#### **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 and consult doctor according to symptoms.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

#### **Eye contact**

Remove contact lenses.

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

#### Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

#### 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.

reddening of the skin

Dermatitis (skin inflammation)

Allergic reaction

# 4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media Suitable extinguishing media

CO2

Extinction powder

Water jet spray

Alcohol resistant foam

#### Unsuitable extinguishing media

High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic gases

Possible build up of explosive/highly flammable vapour/air mixture.

### 5.3 Advice for firefighters

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

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.



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Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

#### 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.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

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

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13. Do not wash away with water or watery cleaning agents.

#### 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

Ensure good ventilation.

Keep away from sources of ignition - Do not smoke.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

#### 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.

Store product closed and only in original packing.

Observe special storage conditions.

Protect from direct sunlight and warming.

Store in a well-ventilated place.

#### 7.3 Specific end use(s)

No information available at present.

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

#### 8.1 Control parameters

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	14	μg/l	
	Environment - marine		PNEC	1,4	μg/l	
	Environment - sewage treatment plant		PNEC	1,8	mg/l	
	Environment - sediment, freshwater		PNEC	3,85	mg/kg dry weight	



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	Environment - sediment, marine		PNEC	0,3851	mg/kg dry weight
	Environment - soil		PNEC	0,763	mg/kg dry weight
	Environment - oral (animal feed)		PNEC	133	mg/kg
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	66,7	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	9,5	mg/kg body weight/day

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
• •	Environmental		•			
	compartment					
	Environment - freshwater		PNEC	57	μg/l	
	Environment - marine		PNEC	5,7	μg/l	
	Environment - sewage treatment plant		PNEC	10	mg/l	
	Environment - sediment, freshwater		PNEC	1,425	mg/kg	
	Environment - sediment, marine		PNEC	0,142	mg/kg	
	Environment - soil		PNEC	0,25	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1,74	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	600	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	2	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	7,05	mg/m3	

### 8.2 Exposure controls

# 8.2.1 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:

Chemical resistant protective gloves (EN ISO 374).

If applicable

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:

0.5

Permeation time (penetration time) in minutes:

480

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.

Protective hand cream recommended.



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Skin protection - Other:

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

Respiratory protection: Normally not necessary. If OES or MEL is exceeded.

Gas mask filter A (EN 14387), code colour brown

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

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**

Liquid

Yellow

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

Physical state: Colour:

Odour: Characteristic Melting point/freezing point:

There is no information available on this parameter. Boiling point or initial boiling point and boiling range: There is no information available on this parameter. There is no information available on this parameter. Flammability:

Lower explosion limit: There is no information available on this parameter. There is no information available on this parameter. Upper explosion limit: 52 °C Flash point:

Auto-ignition temperature: There is no information available on this parameter. Decomposition temperature: There is no information available on this parameter.

Not determined

Kinematic viscosity: 34 mm2/s (40°C. There is no information available on this parameter.)

Solubility: There is no information available on this parameter. Partition coefficient n-octanol/water (log value): Does not apply to mixtures.

There is no information available on this parameter. Vapour pressure:

Density and/or relative density: 0,97 g/cm3 (40°C)

Relative vapour density: There is no information available on this parameter.

Does not apply to liquids. Particle characteristics:

#### 9.2 Other information

No information available at present.

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

The product has not been tested.

# 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

# 10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources



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# 10.5 Incompatible materials

See also section 7.

Avoid contact with strong oxidizing agents.

Avoid contact with strong alkalis.

Avoid contact with strong acids.

# 10.6 Hazardous decomposition products

See also section 5.2

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 2K	_	_				
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.
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.

(R)-p-mentha-1,8-diene						Т
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	> 2000	mg/kg	Rat	OECD 423 (Acute Oral	Female
					Toxicity - Acute Toxic	
					Class Method)	
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	
					Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute	
					Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit		Skin Irrit. 2
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
					Irritation/Corrosion)	
Respiratory or skin				Mouse	OECD 429 (Skin	Skin Sens. 1B
sensitisation:					Sensitisation - Local	
					Lymph Node Assay)	
Respiratory or skin				Mouse	OECD 429 (Skin	Skin Sens. 1
sensitisation:					Sensitisation - Local	
					Lymph Node Assay)	
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	
					Mutation Test)	
Germ cell mutagenicity:					OECD 479 (Genetic	Negative
					Toxicology - In Vitro	Chinese hamster
					Sister Chromatid	
					Exchange assay in	
					Mammalian Cells)	
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
					Mammalian `	Chinese hamster
					Chromosome	
					Aberration Test)	



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Germ cell mutagenicity:	Salmonella	OECD 471 (Bacterial	Negative
	typhimurium	Reverse Mutation Test)	
Symptoms:			diarrhoea, rash, itching, gastrointestinal disturbances, mucous membrane irritation, nausea and vomiting.
Symptoms:			diarrhoea, rash, itching, gastrointestinal disturbances, mucous membrane irritation, nausea and vomiting.

Citral						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	3450	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	2250	mg/kg	Rabbit		
Skin corrosion/irritation:						Irritant
Respiratory or skin				Guinea pig	OECD 406 (Skin	Yes (skin
sensitisation:					Sensitisation)	contact)
Symptoms:					·	respiratory
						distress,
						drowsiness,
						coughing,
						headaches,
						gastrointestinal
						disturbances,
						mucous
						membrane
						irritation, nause

7-methyl-3-methyleneocta-1,6-diene							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat			
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit			
Aspiration hazard:						Yes	
Symptoms:						mucous	
						membrane	
						irritation	

Endpoint	Value	Unit	Organism	Test method	Notes
LD50	500	mg/kg	Rat		
LD50	>5000	mg/kg	Rabbit		
			Rabbit		Irritant
			Human being		Skin Irrit. 215 min
				(Ames-Test)	Negative
					Yes
	LD50	LD50 500	LD50 500 mg/kg	LD50         500         mg/kg         Rat           LD50         >5000         mg/kg         Rabbit           Rabbit         Rabbit	LD50         500         mg/kg         Rat           LD50         >5000         mg/kg         Rabbit           Rabbit         Human being

cineole						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	2480	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		
Respiratory or skin				Mouse	OECD 429 (Skin	Yes (skin
sensitisation:					Sensitisation - Local	contact)
					Lymph Node Assay)	

# 11.2. Information on other hazards



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Klimaanlagenreiniger 2K								
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**

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

Klimaanlagenreiniger 2K		Time	Value	I I mit	Ormaniam	To at mostly and	Mataa
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.
12.5. Results of PBT							n.d.a.
and vPvB assessment							
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.
Other information:							DOC-elimination
							degree(complexi
							ng organic
							substance)>=
							80%/28d: n.a.
Other information:	AOX		0	%			According to the
							recipe, contains
							no AOX.

(R)-p-mentha-1,8-diene							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:	Log Kow		4,38		-	OECD 117 (Partition Coefficient (n- octanol/water) - HPLC method)	37 °C, pH = 7.2
Other information:							Does not contain any organically bound halogens which can contribute to the AOX value in waste water.
12.1. Toxicity to fish:	LC50	96h	0,70	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	



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12.1. Toxicity to daphnia:	EC50	48h	0,307-	mg/l	Daphnia magna	OECD 202	
			0,42			(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	ErC50	72h	0,214-	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
			0,32		a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	96h	4	mg/l			
12.2. Persistence and		28d	80-92	%		OECD 301 D	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Closed Bottle Test)	
12.2. Persistence and		28d	71	%		OECD 301 B	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Co2 Evolution	
						Test)	
12.4. Mobility in soil:							Adsorption in
							ground.
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	6,78	mg/l	Leuciscus idus		
12.1. Toxicity to daphnia:	EC50	48h	6,8	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	103,8	mg/l	Desmodesmus		
-					subspicatus		
Toxicity to bacteria:	EC50	30min	~160	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

Pin-2(3)-ene							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,303	mg/l			
12.1. Toxicity to daphnia:	EC50	48h	0,475	mg/l	Daphnia magna		
12.2. Persistence and degradability:		32d	37	%		OECD 301 C (Ready Biodegradability - Modified MITI Test (I))	Not readily biodegradable
12.2. Persistence and degradability:		28d	68	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		4,83-5,7				High
12.3. Bioaccumulative potential:	BCF		1845				

cineole							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
12.1. Toxicity to fish:	LC50	96h	57	mg/l	Oncorhynchus	OECD 203 (Fish,	
					mykiss	Acute Toxicity	
						Test)	



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12.1. Toxicity to fish:	NOEC/NOEL	96h	32	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	48h	100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	>74	mg/l	Pseudokirchneriell a subcapitata	OEĆD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	37	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	82	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
Toxicity to bacteria:	EC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

# **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  $\dot{}$ 

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

07 07 99 wastes not otherwise specified

16 05 08 discarded organic chemicals consisting of or containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

#### For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

#### **SECTION 14: Transport information**

#### **General statements**

14.1. UN number or ID number:

1993

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1993 FLAMMABLE LIQUID, N.O.S. (D-LIMONENE)





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14.3. Transport hazard class(es):314.4. Packing group:IIIClassification code:F1LQ:5 L

14.5. Environmental hazards: Not applicable

Tunnel restriction code: D/E

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

FLAMMABLE LIQUID, N.O.S. (D-LIMONENE)

 14.3. Transport hazard class(es):
 3

 14.4. Packing group:
 III

 EmS:
 F-E, S-E

 Marine Pollutant:
 n.a

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

Flammable liquid, n.o.s. (D-LIMONENE) 14.3. Transport hazard class(es):

14.4. Packing group:

14.5. Environmental hazards: Not applicable

#### 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**

3

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)! Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of	Qualifying quantity (tonnes) of
		dangerous substances as	dangerous substances as
		referred to in Article 3(10) for the	referred to in Article 3(10) for the
		application of - Lower-tier	application of - Upper-tier
		requirements	requirements
P5c		5000	50000

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC): ~ 14 %

Observe incident regulations.

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

#### **SECTION 16: Other information**

Revised sections: 9







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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
Flam. Liq. 3, H226	Classification based on test data.
Skin Irrit. 2, H315	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.

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).

H226 Flammable liquid and vapour.

H228 Flammable solid.

H317 May cause an allergic skin reaction.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Flam. Liq. — Flammable liquid Skin Irrit. — Skin irritation

Skin Sens. — Skin sensitization

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Asp. Tox. — Aspiration hazard

Aquatic Acute — Hazardous to the aquatic environment - acute

Eye Irrit. — Eye irritation

Acute Tox. — Acute toxicity - oral Flam. Sol. — Flammable solid

#### **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:

according, according to

Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately

Article number Art., Art. no.



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ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

Bioconcentration factor BCF

BSEF The International Bromine Council

bw body weight

CAS Chemical Abstracts Service

Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances CLP

and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon

dw dry weight

for example (abbreviation of Latin 'exempli gratia'), for instance e.g.

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

**European Community** EC ECHA European Chemicals Agency ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100)

Effect Concentration/Level for x % effect

EEC European Economic Community

European Inventory of Existing Commercial Chemical Substances **EINECS** 

**ELINCS** European List of Notified Chemical Substances

FΝ European Norms

United States Environmental Protection Agency (United States of America) **FPA** 

Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) ErCx,  $E\mu Cx$ , ErLx (x = 10, 50)

etc. et cetera European Union EU

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

Globally Harmonized System of Classification and Labelling of Chemicals GHS

**GWP** Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

IARC International Agency for Research on Cancer IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

including, inclusive incl.

**IUCLID International Uniform Chemical Information Database** IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

Log Koc Logarithm of adsorption coefficient of organic carbon in the soil Log Kow, Log Pow Logarithm of octanol-water partition coefficient

LQ **Limited Quantities** 

MARPOL International Convention for the Prevention of Marine Pollution from Ships

not applicable n.a. not available n.av. not checked n.c. n.d.a. no data available

NIOSH National Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

organic ora.

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PΕ Polyethylene

PNEC Predicted No Effect Concentration

parts per million mag PVC Polyvinylchloride



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REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration,

Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List

Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

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

wwt wet weight

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.

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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