

Page 1 of 15

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

Revision date / version: 17.05.2024 / 0009

Replacing version dated / version: 01.11.2021 / 0008

Valid from: 17.05.2024 PDF print date: 21.05.2024 A/C System Cleaner

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

A/C System Cleaner

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:

Landspitali- The National University Hospital of Iceland, tel. +354 543 2222 or 112 (valid only for Iceland)

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 category Hazard class **Hazard statement**

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

2.2 Label elements

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



Page 2 of 15

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

Revision date / version: 17.05.2024 / 0009 Replacing version dated / version: 01.11.2021 / 0008

Valid from: 17.05.2024 PDF print date: 21.05.2024 A/C System Cleaner



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.

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

2-methylisothiazol-3(2H)-one 1,2-benzisothiazol-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

OIZ MIXEGIOO	
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)
Specific Concentration Limits and ATE	ATE (oral): 1600 mg/kg

1,2-benzisothiazol-3(2H)-one	
Registration number (REACH)	
Index	613-088-00-6
EINECS, ELINCS, NLP, REACH-IT List-No.	220-120-9
CAS	2634-33-5
content %	0,0036-<0,01



(B)

Page 3 of 15

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

Revision date / version: 17.05.2024 / 0009

Replacing version dated / version: 01.11.2021 / 0008

Valid from: 17.05.2024 PDF print date: 21.05.2024 A/C System Cleaner

Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 2, H330
	Acute Tox. 4, H302
	Skin Irrit. 2, H315
	Eye Dam. 1, H318
	Skin Sens. 1A, H317
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)
Specific Concentration Limits and ATE	Skin Sens. 1A, H317: >=0,036 %
	ATE (oral): 450 mg/kg
	ATE (as inhalation, Dusts or mist): 0,21 mg/l/4h
	ATE (as inhalation, Vapours): 0,5 mg/l/4h

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 %
	ATE (oral): 285 mg/kg
	ATE (dermal): 300 mg/kg
	ATE (as inhalation, Dusts or mist): 0,05 mg/l/4h
	ATE (as inhalation, Vapours): 0,5 mg/l/4h

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

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.

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.



(B)

Page 4 of 15

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

Revision date / version: 17.05.2024 / 0009

Replacing version dated / version: 01.11.2021 / 0008

Valid from: 17.05.2024 PDF print date: 21.05.2024 A/C System Cleaner

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.

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.



(B)

Page 5 of 15

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

Revision date / version: 17.05.2024 / 0009

Replacing version dated / version: 01.11.2021 / 0008

Valid from: 17.05.2024 PDF print date: 21.05.2024 A/C System Cleaner

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.

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

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



Page 6 of 15

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

Revision date / version: 17.05.2024 / 0009

Replacing version dated / version: 01.11.2021 / 0008

Valid from: 17.05.2024 PDF print date: 21.05.2024 A/C System Cleaner

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

pH:

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

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

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

Flammability: Not combustible. 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

No

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



Page 7 of 15

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

Revision date / version: 17.05.2024 / 0009

Replacing version dated / version: 01.11.2021 / 0008

Valid from: 17.05.2024 PDF print date: 21.05.2024 A/C System Cleaner

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

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).

A/C System Cleaner	1 -	1				1
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.

Diethanolamine						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1600	mg/kg	Rat	OECD 401 (Acute Oral	
					Toxicity)	
Acute toxicity, by oral route:	ATE	1600	mg/kg			
Acute toxicity, by inhalation:	LC0	0,2	mg/l	Rat	OECD 403 (Acute	
					Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Eye Dam. 1
-					Irritation/Corrosion)	-



Page 8 of 15

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 17.05.2024 / 0009

Replacing version dated / version: 01.11.2021 / 0008

Valid from: 17.05.2024 PDF print date: 21.05.2024 A/C System Cleaner

Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact)
sensitisation:					Sensitisation)	
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation Test)	Escherichia coli
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	
					Mutation Test)	
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian	Negative
					Erythrocyte	
					Micronucleus Test)	
Carcinogenicity:	NOAEL	32	mg/kg	Rat	OECD 451	
			bw/d		(Carcinogenicity Studies)	
Reproductive toxicity:	NOAEL	~12,75	mg/kg	Rat	OECD 443 (Extended	Possible risk of
					One-Generation	harm to the
					Reproductive Toxicity	unborn child.
					Study)	
Reproductive toxicity:	NOAEL	~37,68	mg/kg/d	Rat	OECD 443 (Extended	Possible risk of
					One-Generation	impaired fertility.
					Reproductive Toxicity	
					Study)	
Specific target organ toxicity -	LOAEL	14	mg/kg	Rat	OECD 408 (Repeated	Target organ(s):
repeated exposure (STOT-RE),			bw/d		Dose 90-Day Oral	liver, Target
oral:					Toxicity Study in	organ(s): blood,
					Rodents)	Target organ(s):
						cardiovascular
						system, Female
Symptoms:						breathing
						difficulties,
						respiratory
						distress,
						diarrhoea,
						coughing,
						gastrointestinal
						disturbances,
						mucous
						membrane
						irritation

1,2-benzisothiazol-3(2H)-one						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1193	mg/kg	Rat		
Acute toxicity, by oral route:	ATE	450	mg/kg			
Acute toxicity, by dermal route:	LD50	4115	mg/kg	Rat		
Acute toxicity, by inhalation:	ATE	0,5	mg/l/4h			Vapours
Acute toxicity, by inhalation:	ATE	0,21	mg/l/4h			Dusts or mist
Skin corrosion/irritation:						Skin Irrit. 2
Serious eye damage/irritation:						Eye Dam. 1
Respiratory or skin				Guinea pig		Skin Sens. 1
sensitisation:						
Germ cell mutagenicity:						Negative
Symptoms:						vomiting,
						headaches,
						gastrointestinal
						disturbances,
						nausea

2-methylisothiazol-3(2H)-one						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	285	mg/kg			
Acute toxicity, by oral route:	LD50	285	mg/kg	Rat		
Acute toxicity, by dermal route:	ATE	300	mg/kg			
Acute toxicity, by inhalation:	ATE	0,5	mg/l/4h			Vapours
Acute toxicity, by inhalation:	ATE	0,05	mg/l/4h			Dusts or mist



65	9/

Page 9 of 15

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 17.05.2024 / 0009

Replacing version dated / version: 01.11.2021 / 0008

Valid from: 17.05.2024 PDF print date: 21.05.2024 A/C System Cleaner

Symptoms:			mucous
			membrane
			irritation,
			watering eyes

11.2. Information on other hazards

A/C System Cleaner							
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).

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							The surfactant(s
degradability:							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
							at the request of
							a detergent
							manufacturer.
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							D '
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.



Page 10 of 15

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 17.05.2024 / 0009

Replacing version dated / version: 01.11.2021 / 0008 Valid from: 17.05.2024 PDF print date: 21.05.2024 A/C System Cleaner

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	1460	mg/l	Pimephales	1 cot motilou	110100
40.4 Tavisituta danhais	FC40	244	4.05		promelas		
12.1. Toxicity to daphnia:	EC10 EC50	21d 48h	1,05 55	mg/l	Daphnia magna	11.0 EDA 000/0	
12.1. Toxicity to daphnia:	EC50	48N	55	mg/l	Daphnia magna	U.S. EPA-660/3- 75-009	
12.1. Toxicity to algae:	EC50	96h	19	mg/l	Pseudokirchneriell a subcapitata	U.S. EPA ECOTOX Database	
12.1. Toxicity to algae:	EC10	72h	1,1	mg/l	Pseudokirchneriell a subcapitata	U.S. EPA ECOTOX Database	
12.2. Persistence and degradability:		28d	93%		activated sludge	OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
12.3. Bioaccumulative potential:	BCF		2,7			, , ,	Not to be expected
12.3. Bioaccumulative potential:	Log Pow		-2,46			OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method)	Not to be expected
12.4. Mobility in soil:	Koc		1			,	High, calculate value
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
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		

1,2-benzisothiazol-3(2H)-one							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	2,18	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	2,94	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	ErC50	24h	0,1087	mg/l	Pseudokirchneriell a subcapitata		
12.1. Toxicity to algae:	ErC10	24h	0,0268	mg/l	Pseudokirchneriell a subcapitata		
12.2. Persistence and degradability:							Not readily biodegradable
12.3. Bioaccumulative potential:	BCF		6,95			OECD 305 (Bioconcentration - Flow-Through Fish Test)	-



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Page 11 of 15

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

Revision date / version: 17.05.2024 / 0009

Replacing version dated / version: 01.11.2021 / 0008

Valid from: 17.05.2024 PDF print date: 21.05.2024 A/C System Cleaner

12.3. Bioaccumulative potential:			0,7			OECD 117 (Partition Coefficient (n- octanol/water) - HPLC method)	
12.3. Bioaccumulative potential:	Log Pow		1,3				
Toxicity to bacteria:	EC20	3h	3,3	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	12,4	mg/l	Lepomis macrochirus		
12.1. Toxicity to fish:	LC50	96h	6	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
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)	
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)	
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.



Page 12 of 15

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

Revision date / version: 17.05.2024 / 0009

Replacing version dated / version: 01.11.2021 / 0008

Valid from: 17.05.2024 PDF print date: 21.05.2024 A/C System Cleaner

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

Not applicable

General statements

Transport by road/by rail (ADR/RID)

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):
14.4. Packing group:
14.5. Environmental hazards:
14.5. Environmental hazards:
14.6. Environmental hazards:
15. Environmental hazards:
16. Not applicable
17. Not applicable
18. Not applicable
19. Not applicable

Transport category: Transport by sea (IMDG-code)

14.1. UN number or ID number:

Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):Not applicable14.4. Packing group:Not applicable14.5. Environmental hazards:Not applicableMarine Pollutant:Not applicableEmS:Not applicable

Transport by air (IATA)

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):Not applicable14.4. Packing group:Not applicable14.5. Environmental hazards:Not applicable

14.6. Special precautions for user

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

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 LAURYLAMINE DIPROPYLENEDIAMINE METHYLISOTHIAZOLINONE BENZISOTHIAZOLINONE

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



Page 13 of 15

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

Revision date / version: 17.05.2024 / 0009

Replacing version dated / version: 01.11.2021 / 0008

Valid from: 17.05.2024 PDF print date: 21.05.2024 A/C System Cleaner

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.

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

Revised sections:

2, 3, 11, 12, 15

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.

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.

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

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

Acute Tox. — Acute toxicity - dermal Skin Corr. — Skin corrosion

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.



Page 14 of 15

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

Revision date / version: 17.05.2024 / 0009

Replacing version dated / version: 01.11.2021 / 0008

Valid from: 17.05.2024 PDF print date: 21.05.2024 A/C System Cleaner

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

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

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, EµCx, 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

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

mg/kg bw mg/kg body weight

mg/kg bw/d, mg/kg bw/day mg/kg body weight/day

mg/kg dw mg/kg dry weight mg/kg wwt mg/kg wet weight

n.a. not applicablen.av. not availablen.c. not checkedn.d.a. no data available



Page 15 of 15

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

Revision date / version: 17.05.2024 / 0009

Replacing version dated / version: 01.11.2021 / 0008

Valid from: 17.05.2024 PDF print date: 21.05.2024 A/C System Cleaner

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,

Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 6/7/8/9xx-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.

11.

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

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:

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