

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
7.8	26.11.2024	10663161-00012	Date of first issue: 15.03.2012

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

1.1 Product identifier

Trade name : AIRCONDITIONCLEANER - 1000 ML

Product code : 0893117500

Unique Formula Identifier (UFI) : HUM2-HOJE-300M-7TSR

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

Use of the Sub-stance/Mixture : Cleaning agent, Detergent
Professional use product

Recommended restrictions on use : Not applicable

1.3 Details of the supplier of the safety data sheet

Company : Adolf Wuerth GmbH & Co. KG
Reinhold-Würth-Str. 12-17
74653 Künzelsau

Telephone : +49 794015 0

Telefax : +49 794015 10 00

E-mail address of person responsible for the SDS : isi@wuerth.com

1.4 Emergency telephone number

+49 (0)6132 – 84463

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
7.8	26.11.2024	10663161-00012	Date of first issue: 15.03.2012

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**

P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P330 + P331 + P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/ doctor.

P303 + P361 + P353 + P310 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER/ doctor.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

Hazardous components which must be listed on the label:

Sodium silicate, pentahydrate
Alcohols, C8-10, ethoxylated
Sulfonic acids, petroleum, sodium salts

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version 7.8 Revision Date: 26.11.2024 SDS Number: 10663161-00012 Date of last issue: 09.07.2024
Date of first issue: 15.03.2012

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Sodium silicate, pentahydrate	10213-79-3 01-2119449811-37	Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 EUH071	>= 3 - < 5
Alcohols, C8-10, ethoxylated	71060-57-6	Acute Tox. 4; H302 Eye Dam. 1; H318 Acute toxicity estimate Acute oral toxicity: 500 mg/kg	>= 3 - < 10
Sulfonic acids, petroleum, sodium salts	68608-26-4 271-781-5	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412 Acute toxicity estimate Acute oral toxicity: 500 mg/kg	>= 1 - < 2,5
Quaternary ammonium compounds, C12-18-alkyl(hydroxyethyl)dimethyl, chlorides	85736-63-6 288-474-7	Acute Tox. 3; H301 Acute Tox. 3; H311 Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1 Acute toxicity estimate	>= 0,25 - < 1

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version 7.8 Revision Date: 26.11.2024 SDS Number: 10663161-00012 Date of last issue: 09.07.2024
Date of first issue: 15.03.2012

		Acute oral toxicity: 100 mg/kg Acute dermal toxicity: 300 mg/kg	
Substances with a workplace exposure limit :			
(2-Methoxymethylethoxy)propanol	34590-94-8 252-104-2		>= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- If inhaled : If inhaled, remove to fresh air.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
Get medical attention immediately.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Get medical attention immediately.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
If easy to do, remove contact lens, if worn.
Get medical attention immediately.
- If swallowed : If swallowed, DO NOT induce vomiting.
If vomiting occurs have person lean forward.
Call a physician or poison control centre immediately.
Rinse mouth thoroughly with water.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Causes serious eye damage.
Causes severe burns.
- Causes digestive tract burns.

SAFETY DATA SHEET

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AIRCONDITIONCLEANER - 1000 ML

Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
7.8	26.11.2024	10663161-00012	Date of first issue: 15.03.2012

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Not applicable
Will not burn

Unsuitable extinguishing media : Not applicable
Will not burn

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides
Sulphur oxides
Oxides of phosphorus
Metal oxides
Silicon oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
7.8	26.11.2024	10663161-00012	Date of first issue: 15.03.2012

Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material.
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : If sufficient ventilation is unavailable, use with local exhaust ventilation.

Advice on safe handling : Do not get on skin or clothing.
Do not breathe vapours or spray mist.
Do not swallow.
Do not get in eyes.
Wash skin thoroughly after handling.
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
Keep container tightly closed.
Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version 7.8 Revision Date: 26.11.2024 SDS Number: 10663161-00012 Date of last issue: 09.07.2024
Date of first issue: 15.03.2012

Advice on common storage : Do not store with the following product types:
Strong oxidizing agents
Self-reactive substances and mixtures
Organic peroxides
Explosives

Storage class (TRGS 510) : 8B

Recommended storage temperature : > 5 °C

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
(2-Methoxymethylethoxy)propanol	34590-94-8	TWA	50 ppm 308 mg/m ³	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		AGW (Vapour and aerosols)	50 ppm 310 mg/m ³	DE TRGS 900
	Peak-limit: excursion factor (category): 1;(I)			
		MAK	50 ppm 310 mg/m ³	DE DFG MAK
	Peak-limit: excursion factor (category): 1; I			
	Further information: Either there are no data for an assessment of damage to the embryo or foetus, including developmental neurotoxicity, or the currently available data are not sufficient for classification in one of the groups A - C			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health effects	Value
(2-Methoxymethylethoxy)propanol	Workers	Inhalation	Long-term systemic effects	308 mg/m ³
	Workers	Skin contact	Long-term systemic effects	238 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	37,2 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	121 mg/kg bw/day

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version
7.8

Revision Date:
26.11.2024

SDS Number:
10663161-00012

Date of last issue: 09.07.2024
Date of first issue: 15.03.2012

	Consumers	Ingestion	Long-term systemic effects	36 mg/kg bw/day
Pentasodium triphosphate	Workers	Inhalation	Long-term systemic effects	0,661 mg/m3
	Workers	Inhalation	Acute systemic effects	0,661 mg/m3
	Workers	Skin contact	Long-term systemic effects	0,375 mg/kg bw/day
	Workers	Skin contact	Acute systemic effects	0,375 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,661 mg/m3
	Consumers	Inhalation	Acute systemic effects	0,66 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0,375 mg/kg bw/day
	Consumers	Skin contact	Acute systemic effects	0,375 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,75 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	0,75 mg/kg bw/day
Sodium silicate, pentahydrate	Workers	Inhalation	Long-term systemic effects	5,61 mg/m3
	Workers	Skin contact	Long-term systemic effects	1,59 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,38 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0,8 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,8 mg/kg bw/day
Quaternary ammonium compounds, C12-18-alkyl(hydroxyethyl)dimehyl, chlorides	Workers	Inhalation	Long-term local effects	1 mg/m3
	Consumers	Inhalation	Long-term local effects	1 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
(2-Methoxymethylethoxy)propanol	Fresh water	19 mg/l
	Freshwater - intermittent	190 mg/l
	Marine sediment	1,9 mg/l
	Sewage treatment plant	4168 mg/l
	Fresh water sediment	70,2 mg/kg dry weight (d.w.)
	Marine sediment	7,02 mg/kg dry weight (d.w.)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version 7.8 Revision Date: 26.11.2024 SDS Number: 10663161-00012 Date of last issue: 09.07.2024
Date of first issue: 15.03.2012

	Soil	2,74 mg/kg dry weight (d.w.)
Pentasodium triphosphate	Fresh water	0,005 mg/l
	Marine water	0,005 mg/l
	Intermittent use/release	0,05 mg/l
	Fresh water sediment	0,19 mg/kg dry weight (d.w.)
	Soil	0,14 mg/kg dry weight (d.w.)
Sodium silicate, pentahydrate	Fresh water	7,5 mg/l
	Intermittent use/release	7,5 mg/l
	Marine water	1 mg/l
	Sewage treatment plant	348 mg/l
Quaternary ammonium compounds, C12-18-alkyl(hydroxyethyl)dimethyl, chlorides	Fresh water	0,68 µg/l
	Freshwater - intermittent	0,62 µg/l
	Marine water	0,068 µg/l
	Marine water - intermittent	0,62 µg/l
	Sewage treatment plant	595 µg/l
	Fresh water sediment	11,15 mg/kg dry weight (d.w.)
	Marine sediment	1,12 mg/kg dry weight (d.w.)
	Soil	2,22 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

Minimize workplace exposure concentrations.
If sufficient ventilation is unavailable, use with local exhaust ventilation.

Personal protective equipment

Eye/face protection : Wear the following personal protective equipment:
Chemical resistant goggles must be worn.
If splashes are likely to occur, wear:
Face-shield
Equipment should conform to DIN EN 166

Hand protection

Material : Nitrile rubber
Break through time : > 480 min
Glove thickness : >= 0,5 mm

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
7.8	26.11.2024	10663161-00012	Date of first issue: 15.03.2012

- Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
- Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Equipment should conform to DIN EN 14387
- Filter type : Combined particulates and organic vapour type (A-P)
-

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state : liquid
- Colour : colourless
- Odour : No data available
- Odour Threshold : No data available
- Melting point/freezing point : No data available
- Initial boiling point and boiling range : > 100 °C
- Flammability (solid, gas) : Not applicable
- Flammability (liquids) : No data available
- Upper explosion limit / Upper flammability limit : No data available
- Lower explosion limit / Lower flammability limit : No data available
- Flash point : No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
7.8	26.11.2024	10663161-00012	Date of first issue: 15.03.2012

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : 13
Concentration: 100 %

Viscosity
Viscosity, kinematic : > 7 - < 20,5 mm²/s (40 °C)

Solubility(ies)
Water solubility : completely soluble

Partition coefficient: n-
octanol/water : Not applicable

Vapour pressure : No data available

Density : 1,05 g/cm³ (20 °C)

Relative vapour density : No data available

Particle characteristics
Particle size : Not applicable

9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Evaporation rate : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
7.8	26.11.2024	10663161-00012	Date of first issue: 15.03.2012

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents
Acids

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

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

Information on likely routes of exposure : Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Components:

Sodium silicate, pentahydrate:

Acute inhalation toxicity : LC50 (Rat): > 2 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OPPTS 870.1300
Assessment: Corrosive to the respiratory tract.
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OPPTS 870.1200
Remarks: Based on data from similar materials

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
7.8	26.11.2024	10663161-00012	Date of first issue: 15.03.2012

Alcohols, C8-10, ethoxylated:

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg
Method: Expert judgement

Sulfonic acids, petroleum, sodium salts:

Acute oral toxicity : LD50 (Rat): 500 - 2.000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Mouse): > 2.000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Quaternary ammonium compounds, C12-18-alkyl(hydroxyethyl)dimethyl, chlorides:

Acute oral toxicity : LD50 (Rat): > 50 - 300 mg/kg
Method: OECD Test Guideline 401
Remarks: Based on data from similar materials

Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rabbit, male): > 200 - 1.000 mg/kg
Method: OECD Test Guideline 402
Remarks: Based on data from similar materials

(2-Methoxymethylethoxy)propanol:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1,667 mg/l
Exposure time: 7 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): 9.510 mg/kg

Skin corrosion/irritation

Causes severe burns.

Components:

Sodium silicate, pentahydrate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Corrosive after 3 minutes to 1 hour of exposure

Sulfonic acids, petroleum, sodium salts:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation

Quaternary ammonium compounds, C12-18-alkyl(hydroxyethyl)dimethyl, chlorides:

Species : Rabbit

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
7.8	26.11.2024	10663161-00012	Date of first issue: 15.03.2012

Result : Corrosive after 1 to 4 hours of exposure
Remarks : Based on data from similar materials

(2-Methoxymethylethoxy)propanol:

Species : Rabbit
Result : No skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

Sodium silicate, pentahydrate:

Result : Irreversible effects on the eye
Remarks : Based on skin corrosivity.

Alcohols, C8-10, ethoxylated:

Result : Irreversible effects on the eye

Sulfonic acids, petroleum, sodium salts:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irreversible effects on the eye

Quaternary ammonium compounds, C12-18-alkyl(hydroxyethyl)dimethyl, chlorides:

Result : Irreversible effects on the eye
Remarks : Based on skin corrosivity.

(2-Methoxymethylethoxy)propanol:

Species : Rabbit
Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Sodium silicate, pentahydrate:

Test Type : Local lymph node assay (LLNA)
Exposure routes : Skin contact
Species : Mouse
Method : OECD Test Guideline 429
Result : negative
Remarks : Based on data from similar materials

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
7.8	26.11.2024	10663161-00012	Date of first issue: 15.03.2012

Sulfonic acids, petroleum, sodium salts:

Test Type	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Result	: negative

(2-Methoxymethylethoxy)propanol:

Test Type	: Human repeat insult patch test (HRIPT)
Exposure routes	: Skin contact
Species	: Humans
Result	: negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Sodium silicate, pentahydrate:

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials
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Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative

Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
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Genotoxicity in vivo	: Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Ingestion Result: negative Remarks: Based on data from similar materials
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Sulfonic acids, petroleum, sodium salts:

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
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Genotoxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative
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Quaternary ammonium compounds, C12-18-alkyl(hydroxyethyl)dimethyl, chlorides:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
7.8	26.11.2024	10663161-00012	Date of first issue: 15.03.2012

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative
Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative
Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative
Remarks: Based on data from similar materials

(2-Methoxymethylethoxy)propanol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Test Type: Chromosome aberration test in vitro
Result: negative

Test Type: Saacharomyces cerevisiae, mitotic recombination
assay (in vitro)
Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Sulfonic acids, petroleum, sodium salts:

Species : Rat
Application Route : Ingestion
Exposure time : 2 Years
Result : negative

(2-Methoxymethylethoxy)propanol:

Species : Rat
Application Route : inhalation (vapour)
Exposure time : 2 Years
Method : OECD Test Guideline 453
Result : negative
Remarks : Based on data from similar materials

Reproductive toxicity

Not classified based on available information.

Components:

Sodium silicate, pentahydrate:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
7.8	26.11.2024	10663161-00012	Date of first issue: 15.03.2012

Effects on foetal development : Test Type: Embryo-foetal development
Species: Mouse
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

Sulfonic acids, petroleum, sodium salts:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative

Effects on foetal development : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative

Quaternary ammonium compounds, C12-18-alkyl(hydroxyethyl)dimethyl, chlorides:

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rabbit
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

Test Type: Embryo-foetal development
Species: Rabbit
Application Route: Skin contact
Result: negative
Remarks: Based on data from similar materials

(2-Methoxymethylethoxy)propanol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: inhalation (vapour)
Method: OECD Test Guideline 416
Result: negative
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: inhalation (vapour)
Result: negative

STOT - single exposure

Not classified based on available information.

Components:

Sodium silicate, pentahydrate:

Assessment : May cause respiratory irritation.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
7.8	26.11.2024	10663161-00012	Date of first issue: 15.03.2012

Remarks : Based on national or regional regulation.

STOT - repeated exposure

Not classified based on available information.

Components:

Quaternary ammonium compounds, C12-18-alkyl(hydroxyethyl)dimethyl, chlorides:

Assessment : No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Repeated dose toxicity

Components:

Sodium silicate, pentahydrate:

Species : Rat
NOAEL : > 100 mg/kg
Application Route : Ingestion
Exposure time : 180 Days

Sulfonic acids, petroleum, sodium salts:

Species : Rat
NOAEL : 200 mg/kg
Application Route : Ingestion
Exposure time : 52 Weeks

Quaternary ammonium compounds, C12-18-alkyl(hydroxyethyl)dimethyl, chlorides:

Species : Rat
: 40 mg/kg
Application Route : Ingestion
Exposure time : 90 Days
Method : OECD Test Guideline 408
Remarks : Based on data from similar materials

(2-Methoxymethylethoxy)propanol:

Species : Rat
NOAEL : 1,21 mg/l
Application Route : inhalation (vapour)
Exposure time : 13 Weeks

Species : Rat
NOAEL : 1.000 mg/kg
Application Route : Ingestion
Exposure time : 4 Weeks

Species : Rabbit
NOAEL : 2.850 mg/kg
Application Route : Skin contact

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
7.8	26.11.2024	10663161-00012	Date of first issue: 15.03.2012

Exposure time : 90 Days

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Sodium silicate, pentahydrate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 260 - 310 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1.700 mg/l
aquatic invertebrates Exposure time: 48 h
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae/aquatic : ErC50 (Desmodesmus subspicatus (green algae)): > 345,4
plants mg/l
Exposure time: 72 h

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 3.454 mg/l
Exposure time: 0,5 h

Alcohols, C8-10, ethoxylated:

Toxicity to fish : LC50 : > 10 - 100 mg/l
Exposure time: 96 h

Sulfonic acids, petroleum, sodium salts:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 8,4 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 9,8 mg/l
aquatic invertebrates Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : EC50 (Desmodesmus subspicatus (green algae)): 119,4 mg/l

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
7.8	26.11.2024	10663161-00012	Date of first issue: 15.03.2012

plants
Exposure time: 72 h
Method: OECD Test Guideline 201
NOEC (Desmodesmus subspicatus (green algae)): 20,1 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : NOEC (Pseudomonas putida): 1.000 mg/l
Exposure time: 16 h
Method: DIN 38 412 Part 8

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,6 mg/l
Exposure time: 22 d
Species: Daphnia magna (Water flea)

Quaternary ammonium compounds, C12-18-alkyl(hydroxyethyl)dimethyl, chlorides:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0,1 - 1 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0,01 - 0,1 mg/l
Exposure time: 48 h
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 0,01 - 0,1 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials
EC10 (Pseudokirchneriella subcapitata (green algae)): > 0,01 - 0,1 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

M-Factor (Acute aquatic toxicity) : 10

Toxicity to microorganisms : EC10 : > 1 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOEC: > 0,01 - 0,1 mg/l
Exposure time: 28 d
Species: Pimephales promelas (fathead minnow)
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0,001 - 0,01 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
7.8	26.11.2024	10663161-00012	Date of first issue: 15.03.2012

Remarks: Based on data from similar materials

M-Factor (Chronic aquatic toxicity) : 1

(2-Methoxymethylethoxy)propanol:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): > 1.000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.919 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 969 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 969 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Pseudomonas putida): 4.168 mg/l
Exposure time: 18 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: >= 0,5 mg/l
Exposure time: 22 d
Species: Daphnia magna (Water flea)

12.2 Persistence and degradability

Components:

Alcohols, C8-10, ethoxylated:

Biodegradability : Result: rapidly biodegradable

Sulfonic acids, petroleum, sodium salts:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 78 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

Quaternary ammonium compounds, C12-18-alkyl(hydroxyethyl)dimethyl, chlorides:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 78 %
Exposure time: 28 d

(2-Methoxymethylethoxy)propanol:

Biodegradability : Result: Readily biodegradable.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
7.8	26.11.2024	10663161-00012	Date of first issue: 15.03.2012

Biodegradation: 76 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

12.3 Bioaccumulative potential

Components:

Sulfonic acids, petroleum, sodium salts:

Partition coefficient: n- : log Pow: 0,2
octanol/water

Quaternary ammonium compounds, C12-18-alkyl(hydroxyethyl)dimethyl, chlorides:

Partition coefficient: n- : log Pow: 0,98
octanol/water Remarks: Calculation

(2-Methoxymethylethoxy)propanol:

Partition coefficient: n- : log Pow: 0,004
octanol/water

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
7.8	26.11.2024	10663161-00012	Date of first issue: 15.03.2012

Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Do not dispose of waste into sewer.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
If not otherwise specified: Dispose of as unused product.

Waste Code : The following Waste Codes are only suggestions:

used product
20 01 29*, detergents containing hazardous substances

unused product
20 01 29*, detergents containing hazardous substances

uncleaned packagings
15 01 10*, packaging containing residues of or contaminated by hazardous substances

Acc. Packaging Act properly emptied packaging:
Properly emptied, non-contaminated packaging of non-hazardous products can be supplied to a system for the collection of sales packaging.

SECTION 14: Transport information

14.1 UN number or ID number

ADN	:	UN 1760
ADR	:	UN 1760
RID	:	UN 1760
IMDG	:	UN 1760
IATA	:	UN 1760

14.2 UN proper shipping name

ADN	:	CORROSIVE LIQUID, N.O.S. (Sodium silicate, pentahydrate, Quaternary ammonium compounds, C12-18-alkyl(hydroxyethyl)dimethyl, chlorides)
ADR	:	CORROSIVE LIQUID, N.O.S.
RID	:	CORROSIVE LIQUID, N.O.S. (Sodium silicate, pentahydrate, Quaternary ammonium compounds, C12-18-alkyl(hydroxyethyl)dimethyl, chlorides)
IMDG	:	CORROSIVE LIQUID, N.O.S. (Sodium silicate, pentahydrate, Quaternary ammonium compounds, C12-18-alkyl(hydroxyethyl)dimethyl, chlorides)
IATA	:	Corrosive liquid, n.o.s.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version 7.8 Revision Date: 26.11.2024 SDS Number: 10663161-00012 Date of last issue: 09.07.2024
Date of first issue: 15.03.2012

(Sodium silicate, pentahydrate, Quaternary ammonium compounds, C12-18-alkyl(hydroxyethyl)dimethyl, chlorides)

14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 8	
ADR	: 8	
RID	: 8	
IMDG	: 8	
IATA	: 8	

14.4 Packing group

ADN	
Packing group	: II
Classification Code	: C9
Hazard Identification Number	: 80
Labels	: 8
ADR	
Packing group	: II
Classification Code	: C9
Hazard Identification Number	: 80
Labels	: 8
Tunnel restriction code	: (E)
RID	
Packing group	: II
Classification Code	: C9
Hazard Identification Number	: 80
Labels	: 8
IMDG	
Packing group	: II
Labels	: 8
EmS Code	: F-A, S-B
IATA (Cargo)	
Packing instruction (cargo aircraft)	: 855
Packing instruction (LQ)	: Y840
Packing group	: II
Labels	: Corrosive
IATA (Passenger)	
Packing instruction (passenger aircraft)	: 851
Packing instruction (LQ)	: Y840
Packing group	: II
Labels	: Corrosive

14.5 Environmental hazards

ADN

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
7.8	26.11.2024	10663161-00012	Date of first issue: 15.03.2012

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:
Number on list 3

Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the conditions in corresponding Regulation to determine whether an entry is applicable to the placing on the market or not.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation : Not applicable

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
7.8	26.11.2024	10663161-00012	Date of first issue: 15.03.2012

(Annex XIV)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Water hazard class (Germany) : WGK 2 obviously hazardous to water
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : 5.2.1: Total dust:
Not applicable
5.2.2: Inorganic substances in powdered form:
Not applicable
5.2.4: Inorganic substances in gaseous form:
Not applicable
5.2.5: Organic Substances:
Not applicable
5.2.7.1.1: Carcinogenic substance:
Not applicable
5.2.7.1.1: Quartz fine dust PM4:
Not applicable
5.2.7.1.1: Formaldehyde:
Not applicable
5.2.7.1.1: fibres:
Not applicable
5.2.7.1.2: Germ cell mutagens:
Not applicable
5.2.7.1.3: Substances toxic to reproduction:
Not applicable
5.2.7.2: Poorly degradable, easily enrichable and highly toxic organic substances:
Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 0 %, 0 g/l
Remarks: VOC content excluding water

Regulation (EC) No. 648/2004, as amended : less than 5 %: Phosphates, Anionic surfactants, Cationic surfactants, Non-ionic surfactants

Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
7.8	26.11.2024	10663161-00012	Date of first issue: 15.03.2012

SECTION 16: Other information

Other information : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of H-Statements

H290 : May be corrosive to metals.
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.
H335 : May cause respiratory irritation.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.
EUH071 : Corrosive to the respiratory tract.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Eye Dam. : Serious eye damage
Met. Corr. : Corrosive to metals
Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation
STOT SE : Specific target organ toxicity - single exposure
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
DE DFG MAK : Germany. MAK BAT Annex IIa
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.
2000/39/EC / TWA : Limit Value - eight hours
DE DFG MAK / MAK : MAK value
DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



AIRCONDITIONCLEANER - 1000 ML

Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
7.8	26.11.2024	10663161-00012	Date of first issue: 15.03.2012

- Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Classification of the mixture:

Skin Corr. 1	H314
Eye Dam. 1	H318
Aquatic Chronic 3	H412

Classification procedure:

Based on product data or assessment
Based on product data or assessment
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

DE / EN