

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke

aspirmatic® cleaner *No Change Service!*

Version Revision Date: Date of last issue: 12.09.2016
02.02 10.01.2017 Date of first issue: 07.01.2002

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

1.1 Product identifier

Trade name : aspirmatic® cleaner

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

Use of the Sub- : Cleaning agent
stance/Mixture

Recommended restrictions : Restricted to professional users.
on use

1.3 Details of the supplier of the safety data sheet

Manufacturer/ Supplier : Schülke & Mayr GmbH
Robert-Koch-Str. 2

22851 Norderstedt
Germany
Telephone: +49 (0)40/ 52100-0
Telefax: +49 (0)40/ 52100318
mail@schuelke.com
www.schuelke.com

E-mail address of person : Application Department
responsible for the +49 (0)40/ 521 00 8800
SDS/Contact person ADHI@schuelke.com
(Schülke & Mayr UK Ltd.: +44-1142543500)

1.4 Emergency telephone number

Emergency telephone num- : UK Poisons Emergency number: 0870 600 6266
ber
Emergency telephone num- : +49 (0)40/ 52100-0
ber

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1 H290: May be corrosive to metals.
Eye irritation, Category 2 H319: Causes serious eye irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H290 May be corrosive to metals.
H319 Causes serious eye irritation.

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5.1 Extinguishing media

Suitable extinguishing media : Dry powder, Foam, Water spray jet, Carbon dioxide (CO₂)

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : No information available.

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Increased risk of slipping in the presence of leaked / spilled product. Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Avoid subsoil penetration.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

see Section 8 + 13

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling : Prepare the working solution as given on the label(s) and/or the user instructions.

Advice on protection against fire and explosion : No special protective measures against fire required.

Hygiene measures : Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature in the original container.

Further information on storage conditions : Keep away from heat. Keep container tightly closed.

Advice on common storage : Do not store together with alkalis.

7.3 Specific end use(s)

Specific use(s) : none

SECTION 8: Exposure controls/personal protection

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8.1 Control parameters

none

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

Substance name	Environmental Compartment	Value
Citric acid monohydrate	Fresh water	0,44 mg/l
	Marine water	0,044 mg/l
	Fresh water sediment	7,52 mg/kg
	Marine sediment	0,752 mg/kg
	Soil	29,2 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection

Directive

: The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Remarks

: Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0.11 mm) made by KCL or gloves from other manufacturers offering the same protection. Prolonged contact: Nitrile rubber gloves e.g. Camatril (>480 Min., layer thickness: 0,40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm) made by KCL or gloves from other manufacturers offering the same protection.

Protective measures

: Avoid contact with eyes.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: yellow
Odour	: nearly odourless
Odour Threshold	: not determined
pH	: ca. 0,9, 20 °C, concentrate
Melting point/freezing point	: ca. 0 °C
Decomposition temperature	: No data available
Boiling point/boiling range	: ca. 100 °C
Flash point	: > 100 °C, ISO 2719
	Other information: Does not sustain combustion.
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: No data available
Relative vapour density	: No data available
Density	: ca. 1,17 g/cm ³ , 20 °C

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Solubility(ies)
Water solubility : in all proportions , 20 °C
Partition coefficient: n-
octanol/water : Not applicable
Auto-ignition temperature : No data available
Viscosity
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available

9.2 Other information

Corrosive in contact with metals : > 6,25 mm/a, Corrosive to metals, Aluminium, Mild steel

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Reaction with alkalis(caustic liquors).

10.4 Conditions to avoid

Protect from frost, heat and sunlight.

10.5 Incompatible materials

None reasonably foreseeable.,

10.6 Hazardous decomposition products

None reasonably foreseeable.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 10.000 mg/kg
Acute inhalation toxicity : Acute toxicity estimate: > 50 mg/l
Acute dermal toxicity : Acute toxicity estimate: > 5.000 mg/kg

Skin corrosion/irritation

Components:

Citric acid monohydrate:

Rabbit, Mild skin irritation, Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Product:

Causes serious eye irritation., Expert judgement and weight of evidence determination.

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Does not cause skin sensitisation. OECD Test Guideline 406

Germ cell mutagenicity**Components:****Citric acid monohydrate:**

Germ cell mutagenicity- Assessment : not mutagenic

Carcinogenicity**Components:****Citric acid monohydrate:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

Reproductive toxicity**Components:****Citric acid monohydrate:**Effects on fertility : Rat, Oral, NOAEL: 2.500 mg/kg
Reproductive toxicity - Assessment : No toxicity to reproduction**STOT - single exposure**

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity**Components:****Citric acid monohydrate:**

Rat, NOAEL: 1.200 mg/kg, Oral

Aspiration toxicity

No data available

Further information**Product:**

No data is available on the product itself.

SECTION 12: Ecological information**12.1 Toxicity****Components:****Citric acid monohydrate:**Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 440 - 760 mg/l, 96 h
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 85 - 120 mg/l, 72 h
Toxicity to algae : IC5 (Scenedesmus quadricauda (Green algae)): 640 mg/l

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12.2 Persistence and degradability

Product:

Biodegradability : Readily biodegradable., OECD 301D / EEC 84/449 C6
Chemical Oxygen Demand : ca. 3.090 mg/l ,1 % solution
(COD)

Components:

Citric acid monohydrate:

Biodegradability : Readily biodegradable., OECD Test Guideline 301B

12.3 Bioaccumulative potential

Components:

Citric acid monohydrate:

Bioaccumulation : No bioaccumulation is to be expected (log Pow <= 4).

12.4 Mobility in soil

Components:

Citric acid monohydrate:

Mobility : 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 Other adverse effects

Product:

Additional ecological information : none

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of the product according to the defined EWC (European Waste Code) No.
Contaminated packaging : Take empty packaging to the recycling plant.
Waste key for the unused product : European waste catalog (EWC) 070601
Waste key for the unused product(Group) : Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products.

SECTION 14: Transport information

14.1 UN number

ADR : UN 3265
IMDG : UN 3265
IATA : UN 3265

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Seveso III: Directive : Not applicable
2012/18/EU of the European
Parliament and of the Council
on the control of major-
accident hazards involving
dangerous substances.

Volatile organic compounds : none, Directive 2010/75/EC on the limitation of emissions of
volatile organic compounds

Other regulations : Take note of Directive 98/24/EC on the protection of the
health and safety of workers from the risks related to chemical
agents at work. Take note of Directive 2000/39/EC establishing
a first list of indicative occupational exposure limit values.

15.2 Chemical safety assessment

Exempt

SECTION 16: Other information**Full text of H-Statements**

H319 : Causes serious eye irritation.

Full text of other abbreviations

Eye Irrit. : Eye irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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 - 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

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Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance 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

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008

Met. Corr. 1, H290 : Bridging principle "Substantially similar mixtures".
Eye Irrit. 2, H319 : Calculation method

|| Changes compared with the previous edition!!!

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.