

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.07.2022

Version number 1.0

Revision: 28.07.2022

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

- 1.1 Product identifier
- Trade name: **ARTICONA Foam Cleaner 400ml**
- Article number: 4192885
- UFI: 2Y10-Y0JM-W00J-8DTG
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
- Application of the substance / the mixture
PC35: Detergents and cleaning agents (incl. solvent-based products)
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
Bechtle Logistik & Service GmbH
Bechtle Platz 1
74172 Neckarsulm
Germany
support@articona.eu
- Further information obtainable from: product safety department
- 1.4 Emergency telephone number:
Position center of the Charité Berlin: +49 30 19240
E-Mail: giftnotruf@charite.de

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.
- Hazard pictograms



GHS02

- Signal word Danger
- Hazard statements
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
- Precautionary statements
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

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- P103 Read carefully and follow all instructions.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- 2.3 Other hazards
 - Results of PBT and vPvB assessment
 - PBT: Not applicable.
 - vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.

- Dangerous components:

CAS: 74-98-6 EINECS: 200-827-9	propane ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280 substance with a Community workplace exposure limit	≥0-≤10%
CAS: 106-97-8 EINECS: 203-448-7	butane (containing ≥ 0,1% butadiene (203-450-8)) ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280 substance with a Community workplace exposure limit	≥0-≤10%
CAS: 64-17-5 EINECS: 200-578-6	ethanol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319 substance with a Community workplace exposure limit	≥0-≤2,5%
CAS: 111-76-2 EINECS: 203-905-0	2-butoxyethanol ⚠ Acute Tox. 4, H302; ⚠ Acute Tox. 4, H312; ⚠ Acute Tox. 4, H332; ⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2, H319 ATE: LD50 oral: 1.200 mg/kg substance with a Community workplace exposure limit	≥0-≤2,5%

- Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: In case of vomiting, observe the risk of aspiration. Rinse mouth with water.
- 4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents:
 - Foam
 - Carbon dioxide
 - Water spray
 - Fire-extinguishing powder
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- Protective equipment:
 - Flammable. In case of fire: Wear self-contained breathing apparatus.
- Additional information: Use water spray to protect persons and to cool

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Use water spray to protect persons and to cool containers in the danger zone.
Collect contaminated extinguishing water separately. Do not allow to enter drains or water courses.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
Keep away from ignition sources.
Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.
- 6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling No special precautions are necessary if used correctly.
- Information about fire - and explosion protection:
Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
Requirements to be met by storerooms and receptacles:
Observe official regulations on storing packagings with pressurised containers.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- Storage class (TRGS): 2 B
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:

74-98-6 propane

AGW (Germany)	Long-term value: 1800 mg/m ³ , 1000 ppm 4(II);DFG
---------------	-----------------------------------------------------------------

106-97-8 butane (containing ≥ 0,1% butadiene (203-450-8))

MAK (Germany)	Long-term value: 2400 mg/m ³ , 1000 ppm
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64-17-5 ethanol

MAK (Germany)	Long-term value: 380 mg/m ³ , 200 ppm
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111-76-2 2-butoxyethanol

MAK (Germany)	Long-term value: 49 mg/m ³ , 10 ppm vgl.Abschn.XII
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- DNELs

64-17-5 ethanol

Dermal	DNEL Long-term – dermal, systemic effects	343 mg/kg_bw/day (Worker)
Inhalative	DNEL Long-term – inhalation, systemic effects	950 mg/m ³ /day (Worker)
	DNEL Acute - inhalation, local effects	1.900 mg/m ³ (Worker)

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111-76-2 2-butoxyethanol

Oral	DNEL Long-term - oral, systemic effects	6,9 mg/kg_bw/day (general public)
	DNEL Acute - oral, systemic effects	26,7 mg/kg bw/day (general public)
Dermal	DNEL Long-term – dermal, local effects	75 mg/kg bw/day (general public)
	DNEL Acute - dermal systemic effects	89 mg/kg bw/day (Worker) 89 mg/kg bw/day (general public)
Inhalative	DNEL Long-term – inhalation, systemic effects	59 mg/m ³ /day (general public)
	DNEL Acute – inhalation, systemic effects	1.091 mg/m ³ (Worker) 426 mg/m ³ (general public)
	DNEL Acute - inhalation, local effects	246 mg/m ³ (Worker) 147 mg/m ³ (general public)

· PNECs

64-17-5 ethanol

PNEC short term, fresh water	0,96 mg/l (Aquatic organisms)
PNEC short term, sea water	0,79 mg/l (Aquatic organisms)
PNEC short term, sewage plant	580 mg/l (Aquatic organisms)
PNEC short term fresh water sediment	3,6 mg/kg (Aquatic organisms)
PNEC short term soil	0,63 mg/kg (terrestrial organisms)
PNEC short term sea water sediment	2,9 mg/kg (Aquatic organisms)
PNEC short term, intermittent releases	2,75 mg/l (Aquatic organisms)
PNEC secondary poisoning	72.000 mg/kg KG/d

111-76-2 2-butoxyethanol

PNEC short term, fresh water	8,8 mg/l (Aquatic organisms)
PNEC short term, sea water	0,88 mg/l (Aquatic organisms)
PNEC short term, sewage plant	463 mg/l (Aquatic organisms)
PNEC short term fresh water sediment	34,6 mg/kg (Aquatic organisms)
PNEC short term soil	3,13 mg/kg (terrestrial organisms)
PNEC short term sea water sediment	3,46 mg/kg (Aquatic organisms)
PNEC secondary poisoning	20 mg/kg KG/d

· Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Appropriate engineering controls No further data; see item 7.

· Individual protection measures, such as personal protective equipment

· General protective and hygienic measures: Wash hands before breaks and at the end of work.

· Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

· Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye/face protection Not required.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information	
· Physical state	Aerosol
· Colour:	Opaque
· Odour:	Lemon
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	<-20 °C
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	10,8 Vol %
· Flash point:	<-20 °C
· Ignition temperature:	235 °C
· Decomposition temperature:	Not determined.
· pH at 20 °C	8-9
· Viscosity:	
· Kinematic viscosity	Not determined.
· Viscosity @100°C:	
· Dynamic:	Not determined.
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	6.700 hPa
· Density and/or relative density	
· Density at 20 °C:	0,918 g/cm ³
· Relative density	Not determined.
· Density (@15°C)	Not determined.
· Vapour density	Not determined.

· 9.2 Other information

· Appearance:	
· Form:	Aerosol
· Important information on protection of health and environment, and on safety.	
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	5-<8 %
· Water:	>90,0 %
· VOC (EC)	77,95 %
· Solids content:	0,0 %
· Change in condition	
· Evaporation rate	Not applicable.

· Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void
· Aerosols	Extremely flammable aerosol. Pressurised container: May burst if heated.
· Oxidising gases	Void
· Gases under pressure	Void

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· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- 10.1 Reactivity Extremely flammable aerosol.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid Keep away from heat / sparks / open flames / hot surfaces. Do not smoke.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	>48.000-60.000 mg/kg (ATE)
Dermal	LD50	>16.000-20.000 mg/kg (rab)
Inhalative	LD50	>440-550 mg/kg

64-17-5 ethanol

Oral	LD50	7.060 mg/kg (rat)
Inhalative	LC50 (4h)	20.000 mg/l (rat)

111-76-2 2-butoxyethanol

Oral	LD50	1.200 mg/kg (ATE) 1.480 mg/kg (rat)
Dermal	LD50	400 mg/kg (rab) >2.000 mg/kg (rat)

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

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· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

106-97-8 butane (containing $\geq 0,1\%$ butadiene (203-450-8))

LC50 (96h) mg/ltr. 27,98 mg/ltr (Fish)

EC50 (96h) mg/ltr 7,71 mg/ltr (algae)

64-17-5 ethanol

LC50 (96h) mg/ltr. 13.000-15.300 mg/ltr (Fish)

EC50 (48h) 12.340 mg/l (Daphnia magna)

5.012 mg/l (daphnia)

EC50 (72h) 275 mg/l (algae)

EC50 (48h) 857 mg/ltr. (Invertebrates)

EC50 (24h) >10 mg/kg (Invertebrates)

EC10 (72h) 11,5 mg/ltr. (algae)

NOEC >10 mg/l /21d (Daphnia magna)

79 mg/l /10d (Palaemonetes pugio)

9,6 mg/l /10d (daphnia)

111-76-2 2-butoxyethanol

LC50 (96h) mg/ltr. 1.474 mg/ltr (Oncorhynchus mykiss)

EC50 (48h) 1.550 mg/l (Daphnia magna)

EC50 (72h) 1.840 mg/l (Pseudokirchneriella subcapitata)

ErC50 (96h) 1.840 mg/ltr /(72h) (algae)

NOEC 100 mg/l /21d (Daphnia magna)

· 12.2 Persistence and degradability

64-17-5 | ethanol | 98 %

· 12.3 Bioaccumulative potential No further relevant information available.

· 12.4 Mobility in soil No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects No further relevant information available.

· Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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· European waste catalogue

16 05 04* gases in pressure containers (including halons) containing hazardous substances

HP3 Flammable

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR, IMDG, IATA

UN1950

· 14.2 UN proper shipping name

· ADR

1950 AEROSOLS

· IMDG

AEROSOLS

· IATA

AEROSOLS, flammable

· 14.3 Transport hazard class(es)

· ADR



· Class

2 5F Gases.

· Label

2.1

· IMDG, IATA



· Class

2.1 Gases.

· Label

2.1

· 14.4 Packing group

· ADR, IMDG, IATA

not regulated

· 14.5 Environmental hazards:

Not applicable.

· 14.6 Special precautions for user

Warning: Gases.

· Hazard identification number (Kemler code):

-

· EMS Number:

F-D,S-U

· Stowage Code

SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity

of 1 litre: Category A. For AEROSOLS with a

capacity above 1 litre: Category B. For WASTE

AEROSOLS: Category C, Clear of living quarters.

SG69 For AEROSOLS with a maximum capacity

of 1 litre:

Segregation as for class 9. Stow "separated from"

class 1 except for division 1.4.

For AEROSOLS with a capacity above 1 litre:

Segregation as for the appropriate subdivision of

class 2.

For WASTE AEROSOLS:

Segregation as for the appropriate subdivision of

class 2.

· Segregation Code

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- | | |
|----------------------------------------------------------------|------------------------------------------------|
| · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| · Transport/Additional information: | |
| ----- | |
| · ADR | |
| · Limited quantities (LQ) | 1L |
| · Excepted quantities (EQ) | Code: E0
Not permitted as Excepted Quantity |
| · Transport category | 3 |
| · Tunnel restriction code | D |
| ----- | |
| · IMDG | |
| · Limited quantities (LQ) | 1L |
| · Excepted quantities (EQ) | Code: E0
Not permitted as Excepted Quantity |
| · UN "Model Regulation": | UN 1950 AEROSOLS, 2.1 |

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: (Substances not listed)

None of the ingredients is listed.

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category P3a FLAMMABLE AEROSOLS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- REGULATION (EU) 2019/1148

- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

- Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

- Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

- National regulations:

- Technical instructions (air):

Class	Share in %
Wasser	90,0
NK	8,0

- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

- Disclaimer

This safety data sheet contains only safety relevant information. The information is based on the state of our knowledge at the time of revision, however, it does not constitute a guarantee of product

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- Relevant phrases

- H220 Extremely flammable gas.

- H225 Highly flammable liquid and vapour.

- H280 Contains gas under pressure; may explode if heated.

- H302 Harmful if swallowed.

- H312 Harmful in contact with skin.

- H315 Causes skin irritation.

- H319 Causes serious eye irritation.

- H332 Harmful if inhaled.

- Department issuing SDS: Quality Management department

- Contact: MSDS authorized Person

- Abbreviations and acronyms:

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

- IMDG: International Maritime Code for Dangerous Goods

- IATA: International Air Transport Association

- GHS: Globally Harmonised System of Classification and Labelling of Chemicals

- EINECS: European Inventory of Existing Commercial Chemical Substances

- ELINCS: European List of Notified Chemical Substances

- CAS: Chemical Abstracts Service (division of the American Chemical Society)

- VOC: Volatile Organic Compounds (USA, EU)

- DNEL: Derived No-Effect Level (REACH)

- PNEC: Predicted No-Effect Concentration (REACH)

- LC50: Lethal concentration, 50 percent

- LD50: Lethal dose, 50 percent

- PBT: Persistent, Bioaccumulative and Toxic

- vPvB: very Persistent and very Bioaccumulative

- Flam. Gas 1A: Flammable gases – Category 1A

- Aerosol 1: Aerosols – Category 1

- Press. Gas (Comp.): Gases under pressure – Compressed gas

- Flam. Liq. 2: Flammable liquids – Category 2

- Acute Tox. 4: Acute toxicity – Category 4

- Skin Irrit. 2: Skin corrosion/irritation – Category 2

- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

- * Data compared to the previous version altered.

DEE