

Safety data sheet
*according to 1907/2006/EC, Article 31, including
amending Regulation (EU) 2020/878*

Printing date 18.11.2022

Version number 1.0

Revision: 18.11.2022

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

- 1.1 Product identifier
- Trade name: **ARTICONA Screen Cleaner Spray 100 ml**
ARTICONA Screen Cleaner Refill 1 l
- Article number: 4568282, 4568312
- UFI: NF10-X0E8-200K-9CA3
- 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 Cleaning material/ Detergent
- 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
The product is not classified, according to the CLP regulation.
- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008 Void
- Hazard pictograms Void
- Signal word Void
- Hazard statements Void
- Additional information:
Safety data sheet available on request.
- 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.

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· Dangerous components:		
CAS: 64-17-5 EINECS: 200-578-6	ethanol ⚠ Flam. Liq. 2, H225 substance with a Community workplace exposure limit	≥0-≤10%
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-<10%
CAS: 67-63-0 EINECS: 200-661-7	propan-2-ol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336 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: Seek medical treatment.
 - 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:
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture Carbon monoxide (CO)
- 5.3 Advice for firefighters
- Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
Wear protective clothing.
Ensure adequate ventilation
- 6.2 Environmental precautions:
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 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.

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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.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
· Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Storage class (TRGS): 10
- 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:

64-17-5 ethanol

MAK (Germany) Long-term value: 380 mg/m³, 200 ppm

111-76-2 2-butoxyethanol

MAK (Germany) Long-term value: 49 mg/m³, 10 ppm
vgl. Abschn. XII

67-63-0 propan-2-ol

AGW (Germany) Long-term value: 500 mg/m³, 200 ppm
2(II);DFG, Y

- DNELs

64-17-5 ethanol

Oral	DNEL Acute - oral, systemic effects	87 mg/kg bw/day (general public)
Dermal	DNEL Long-term – dermal, systemic effects	343 mg/kg_bw/day (Worker) 206 mg/kg_bw/day (general public)
Inhalative	DNEL Long-term – inhalation, systemic effects	950 mg/m ³ /day (Worker) 114 mg/m ³ /day (general public)
	DNEL Acute - inhalation, local effects	1.900 mg/m ³ (Worker) 950 mg/m ³ (general public)

111-76-2 2-butoxyethanol

Oral	DNEL Long-term - oral, systemic effects	6,9 mg/kg_bw/day (general public)
Dermal	DNEL Acute - oral, systemic effects	26,7 mg/kg bw/day (general public)
	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)
	DNEL Long-term – inhalation, systemic effects	59 mg/m ³ /day (general public)
Inhalative	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)

67-63-0 propan-2-ol

Oral	DNEL Long-term - oral, systemic effects	26 mg/kg_bw/day (rat)
Dermal	DNEL Long-term – dermal, systemic effects	888 mg/kg_bw/day (rat)

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Inhalative	DNEL Long-term – inhalation, systemic effects	500 mg/m ³ /day (rat)
· 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)	
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	
67-63-0 propan-2-ol		
PNEC short term, fresh water	140,9 mg/l (Aquatic organisms)	
PNEC short term, sea water	140,9 mg/l (Aquatic organisms)	
PNEC short term, sewage plant	2.251 mg/l (Aquatic organisms)	
PNEC short term fresh water sediment	552 mg/kg (Aquatic organisms)	
PNEC short term soil	mg/kg (28)	
PNEC short term sea water sediment	552 mg/kg (Aquatic organisms)	
PNEC short term, intermittent releases	140,9 mg/l (Aquatic organisms)	
PNEC secondary poisoning	160 mg/kg KG/d (rat)	
· Ingredients with biological limit values:		
67-63-0 propan-2-ol		
BGW (Germany)	25 mg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Aceton	
	25 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Aceton	

· 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: Not required.
- 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

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- Material of gloves
Butyl rubber, BR
Nitrile rubber, NBR
- 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.
- Eye/face protection Goggles recommended during refilling

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
- Physical state Fluid
- Colour: Blue
- Odour: Alcohol-like
- Odour threshold: Not determined.
- Melting point/freezing point: Undetermined.
- Boiling point or initial boiling point and boiling range ~100 °C
- Flammability Not applicable.
- Lower and upper explosion limit
- Lower: Not determined.
- Upper: Not determined.
- Flash point: >60 °C
- Decomposition temperature: Not determined.
- pH at 20 °C 8
- Viscosity:
- Kinematic viscosity Not determined.
- Viscosity @100°C:
- Dynamic: Not determined.
- Solubility
- water: Fully miscible.
- Partition coefficient n-octanol/water (log value) Not determined.
- Vapour pressure: Not determined.
- Density and/or relative density
- Density at 20 °C: ~1 g/cm³
- Relative density Not determined.
- Density (@15°C) Not determined.
- Vapour density Not determined.

- 9.2 Other information
- Appearance:
- Form: Fluid
- Important information on protection of health and environment, and on safety.
- Auto-ignition temperature: Product is not selfigniting.
- Explosive properties: Product does not present an explosion hazard.
- Solvent content:
- Organic solvents: 3-<12,5 %
- VOC (EC) 96,00 %
- Change in condition
- Evaporation rate Not determined.

- Information with regard to physical hazard classes
- Explosives Void
- Flammable gases Void

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· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· 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 No further relevant information available.
- 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 No further relevant information available.
- 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	>24.000-120.000 mg/kg (ATE)
Dermal	LD50	>8.000-40.000 mg/kg (rab)
Inhalative	LD50	>220-1.100 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)

67-63-0 propan-2-ol

Oral	LD50	5.045 mg/kg (rat)
Dermal	LD50	12.800 mg/kg (rabbit)
Inhalative	LC50 (4h)	30 mg/l (rat)

- Skin corrosion/irritation Based on available data, the classification criteria are not met.

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- 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.
- 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

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)

67-63-0 propan-2-ol

LC50 (96h) mg/ltr.	9.640 mg/ltr (Fish)
LC50 (48h) mg/ltr	>100 mg/ltr (Fish, minnows)
EC50 (48h)	>100 mg/l (Daphnia magna)
	13.299 mg/l (daphnia)
EC50 (72h)	>100 mg/l (algae)

· 12.2 Persistence and degradability

67-63-0	propan-2-ol	95 %
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· 12.3 Bioaccumulative potential

64-17-5	ethanol	-0,31
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· 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.

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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.

- European waste catalogue

15 02 02*	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances
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20 01 29*	detergents containing hazardous substances
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- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- | | |
|-------------------------------|---------------|
| · 14.1 UN number or ID number | |
| · ADR, IMDG, IATA | not regulated |

- | | |
|--------------------------------|---------------|
| · 14.2 UN proper shipping name | |
| · ADR, IMDG, IATA | not regulated |

- | | |
|-----------------------------------|---------------|
| · 14.3 Transport hazard class(es) | |
| · ADR, ADN, IMDG, IATA | |
| · Class | not regulated |

- | | |
|----------------------|---------------|
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | not regulated |

- | | |
|-------------------------------|-----------------|
| · 14.5 Environmental hazards: | Not applicable. |
|-------------------------------|-----------------|

- | | |
|-------------------------------------|-----------------|
| · 14.6 Special precautions for user | Not applicable. |
|-------------------------------------|-----------------|

- | | |
|--|-----------------|
| · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
|--|-----------------|

- | | |
|--------------------------|---------------|
| · UN "Model Regulation": | not regulated |
|--------------------------|---------------|

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.
- REGULATION (EU) 2019/1148

- | |
|--|
| · Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)) |
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None of the ingredients is listed.

- | |
|---|
| · Annex II - REPORTABLE EXPLOSIVES PRECURSORS |
|---|

None of the ingredients is listed.

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· 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 %
NK	12,5

· 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 properties, product information or product specifications and does not establish a contractual legal relationship. This document is only valid in its unchanged form. In the event of changes by third parties, the exhibitor accepts no responsibility for form and content or for any damages or claims arising from such changes. The information is not transferable to other products. If the product named in this safety data sheet is mixed, blended or processed with other materials or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise. The data sheet does not release the user from the obligation to ensure that he acts in accordance with all regulations in connection with his activity.

· Relevant phrases

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

· 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. 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

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STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
· * Data compared to the previous version altered.

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