Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 08.11.2023 Version number 1.1 (replaces version 1.0) Revision: 08.11.2023

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

· 1.1 Product identifier

· Trade name: **ARTICONA Alcohol-based Cleaner Cloth 40×, ARTICONA Alcohol-based Cleaner Cloth 10×**

· Article number: 4568412, 4568417
· 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:
Posion center of the Charité Berlin: +49 30 19240
E-Mail: giftnotruf@charite.de
National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)
Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

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SECTION 2: Hazards identification

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

Eye Irrit. 2 H319 Causes serious eye irritation.

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

GHS07

· Signal word Warning
· Hazard statements
H319 Causes serious eye irritation.
· 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.
P264	Wash thoroughly after handling.
P280	Wear eye protection / face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

· 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: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43	ethanol Flam. Liq. 2, H225; Eye Irrit. 2, H319	≥50-≤100%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119467558-25-XXXX	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	≤2.5%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	≤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. If symptoms persist, consult a doctor.
· 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:
CO_2, 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.

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SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures
Wear protective clothing.
Ensure adequate ventilation
· 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
· 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
· 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.

· 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: Keep container tightly sealed.
· Storage class (TRGS): 11
· 7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:	
67-63-0 propan-2-ol	
WEL	Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 ppm
78-93-3 butanone	
WEL	Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV

· DNELs		
64-17-5 ethanol		
Dermal	DNEL Long-term – dermal, systemic effects	343 mg/kg_bw/d (Worker)
Inhalative	DNEL Long-term – inhalation, systemic effects	950 mg/m³/d (Worker)
	DNEL Acute - inhalation, local effects	1,900 mg/m³ (Worker)
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/d (rat)
Inhalative	DNEL Long-term – inhalation, systemic effects	500 mg/m³/d (rat)
78-93-3 butanone		
Oral	DNEL Long-term - oral, systemic effects	31 mg/kg_bw/day (general public)
Dermal	DNEL Long-term – dermal, systemic effects	1.161 mg/kg_bw/d (Worker)
	DNEL Acute - dermal, local effects	412 mg/kg (general public)
Inhalative	DNEL Long-term – inhalation, systemic effects	600 mg/m³/d (Worker)

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		106 mg/m³/d (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 (teresstric 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
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)
78-93-3 butanone	
PNEC short term, fresh water	55.8 mg/l (Aquatic organisms)
PNEC short term, sea water	55.8 mg/l (Aquatic organisms)
PNEC short term, sewage plant	709 mg/l (Aquatic organisms)
PNEC short term fresh water sediment	284.7 mg/kg (Aquatic organisms)
PNEC short term soil	22.5 mg/kg (teresstric organisms)
PNEC short term, intermittent releases	55.8 mg/l (Aquatic organisms)

· Ingredients with biological limit values:	
78-93-3 butanone	
BMGV	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one

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

· 8.2 Exposure controls
· Appropriate engineering controls No further data; see section 7.
· Individual protection measures, such as personal protective equipment
· General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
· 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.

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

Protective gloves

· 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

Tightly sealed goggles

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties
· General Information

· Physical state	Solid
· Colour:	White
· Odour:	Alcohol-like
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	82-89 °C
· Flammability	Not determined.
· Lower and upper explosion limit	
· Lower:	2 Vol %
· Upper:	12 Vol %
· Flash point:	<21 °C
· Decomposition temperature:	Not determined.
· pH at 20 °C	6-7
· Viscosity:	
· Kinematic viscosity	Not applicable.
· Viscosity at 100°C:	
· Dynamic:	Not applicable.
· Solubility	
· water:	Soluble.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	43 hPa
· Density and/or relative density	
· Density at 20 °C:	0.99 g/cm³
· Relative density	Not determined.
· Density (@15°C)	Not determined.
· Vapour density	Not applicable.

· 9.2 Other information
· Appearance:

· Form:	liquid applied to cloth
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.

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· Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	
· Organic solvents:	68-≤83 %
· VOC (EC)	72.75 %
· Solids content:	100.0 %
· Change in condition	
· Evaporation rate	Not applicable.

· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· 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:

64-17-5 ethanol		
Oral	LD50	7,060 mg/kg (rat)
Inhalative	LC50 (4h)	20,000 mg/l (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)

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78-93-3 butanone		
Oral	LD50	3,300 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rabbit)
Inhalative	LC50 (4h)	34.5 mg/l (rat)
	LC50(4h) o. Zuordnung	34.5 mg/l (rat)

· Serious eye damage/irritation Causes serious eye irritation.
· 11.2 Information on other hazards

· Endocrine disrupting properties		
78-93-3	butanone	List II

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:	
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)
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)
78-93-3 butanone	
LC50 (96h) mg/ltr.	2,990 mg/ltr (Fish) (OECD 203)
LC50 (48h) mg/ltr	>100 mg/ltr (Fish)
EC50 (48h)	>100 mg/l (algae)
	>100 mg/l (Daphnia magna)
	308 mg/l (daphnia) (OECD 202)
EC50 (72h)	1,972 mg/l (Pseudokirchneriella subcapitata)
NOEC	1,150 mg/l (Microorganism)

· 12.2 Persistence and degradability		
64-17-5	ethanol	98 %
67-63-0	propan-2-ol	95 %
78-93-3	butanone	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.

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· 12.6 Endocrine disrupting properties
For information on endocrine disrupting properties see section 11.
· 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.

· 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	special regulation 216
· IATA	special regulation A46
· 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.

· Poisons Act

· Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

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· Reportable explosives precursors
None of the ingredients is listed.

· Reportable poisons
None of the ingredients is listed.

· Directive 2012/18/EU
· Named dangerous substances - ANNEX I None of the ingredients is listed.
· 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.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.

· 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 (UK REACH)
PNEC: Predicted No-Effect Concentration (UK 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
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
· * Data compared to the previous version altered.