

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: ctg_0007_ba Issue date: 1/26/2022 Version: 1.0

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

1.1. Product identifier

Product form : Mixture

Trade name : Bartscher Cleaning tabs KV-20 UFI : E7AE-A6D7-1006-44SY

Product code : 173283
Type of product : Cleaning agent

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

1.2.1. Relevant identified uses

Intended for general public

Use of the substance/mixture : Cleaning product

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Bartscher GmbH Franz-Kleine-Straße 28 33154 Salzkotten - Germany T +49 (0) 5258 971 - 0 info@bartscher.com

1.4. Emergency telephone number

Emergency number : +49 (0) 5258 971 - 0 (8:00 - 16:30)

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2
Full text of H- and EUH-statements: see section 16

H319

Adverse physicochemical, human health and environmental effects

Causes serious eye irritation.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP) : Warning

Hazard statements (CLP)

: H319 - Causes serious eye irritation.

Precautionary statements (CLP)

: P102 - Keep out of reach of children.

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.

P101 - If medical advice is needed, have product container or label at hand.

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Child-resistant fastening : Not applicable Tactile warning : Not applicable

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Component		
fatty alcohol polyglycol ethers, modified	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sodium carbonate	(CAS-No.) 497-19-8 (EC-No.) 207-838-8 (EC Index-No.) 011-005-00-2 (REACH-no) 01-2119485498-19	20 – 30	Eye Irrit. 2, H319
disodium carbonate, compound with hydrogen peroxide (2:3)	(CAS-No.) 15630-89-4 (EC-No.) 239-707-6 (REACH-no) 01-2119457268-30	20 - < 25	Ox. Sol. 3, H272 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Citric acid, monohydrate	(CAS-No.) 5949-29-1 (EC-No.) 201-069-1 (REACH-no) 01-2119457026-42	10 – 20	Eye Irrit. 2, H319
(1-hydroxyethylidene)bisphosphonic acid, sodium salt	(CAS-No.) 29329-71-3 (EC-No.) 701-238-4	1 – 5	STOT RE 2, H373
fatty alcohol polyglycol ethers, modified		1 – 5	Eye Irrit. 2, H319

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
peroxide (2:3)	(CAS-No.) 15630-89-4 (EC-No.) 239-707-6 (REACH-no) 01-2119457268-30	(7.5 ≤C < 25) Eye Irrit. 2, H319 (25 ≤C < 100) Eye Dam. 1, H318

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation
First-aid measures after skin contact

: Remove person to fresh air and keep comfortable for breathing.

: Brush off loose particles from skin. Wash skin with plenty of water. If symptoms persist call a

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First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell. Rinse mouth out with water. Drink plenty of

water. Do NOT induce vomiting. Get immediate medical advice/attention. If possible, show the doctor this safety data sheet. Failing this, show the doctor the packaging or label.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Symptoms may be delayed.

Symptoms/effects after inhalation : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation

exposure.

Symptoms/effects after skin contact : Prolonged or repeated contact may cause skin to become dry. Repeated or prolonged skin

contact may cause dermatitis and defatting.

Symptoms/effects after eye contact : Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : None to our knowledge.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : inhalable and respirable dust. When exposed to high temperatures may produce hazardous

decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides

(NOx). Phosphorus oxides.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

Other information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance

with local regulations. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid creating or spreading dust.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product. Minimise generation of dust.

Other information : If recycling is not possible, eliminate in accordance with local valid waste disposal

regulations.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal

protective equipment.

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Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product. Take off immediately all contaminated clothing and wash it before reuse. Do not

breathe dust.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Store in dry protected location to prevent any

moisture contact.

Incompatible products : Strong acids. Water.

Heat and ignition sources : Keep away from any flames or sparking source. Protect from heat and direct sunlight.

Information on mixed storage : Keep away from combustible materials. Strong acids.

Storage area : Store in a dry place. Store in a well-ventilated place. Protect from humidity and water.

7.3. Specific end use(s)

Cleaning agent. Cleaners for kitchen areas.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Protective goggles.

Personal protective equipment symbol(s):





8.2.2.1. Eye and face protection

No additional information available

8.2.2.2. Skin protection

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

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Hand protection:

Protective gloves. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Butyl rubber	6 (> 480 minutes)			EN ISO 374
Disposable gloves	Neoprene rubber (HNBR)	6 (> 480 minutes)			EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

No respiratory protection needed under normal use conditions. Dust production: dust mask with filter type P2

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid Colour : white. : tablet. Appearance : characteristic. Odour Odour threshold : Not available : Not available Melting point : Not applicable Freezing point Boiling point : Not available Flammability : Non flammable. Explosive properties : Non oxidizing. Explosive limits : Not applicable Lower explosion limit : Not applicable : Not applicable Upper explosion limit Flash point : Not applicable Auto-ignition temperature : Not applicable : Not available Decomposition temperature

pH : 10 pH solution : 1%

Viscosity, kinematic Not applicable Soluble in water. Solubility : Not available Partition coefficient n-octanol/water (Log Kow) Vapour pressure : Not available : Not available Vapour pressure at 50 °C : Not available Density : Not available Relative density Relative vapour density at 20 °C : Not applicable Particle size : Not available Particle size distribution : Not available Particle shape : Not available Particle aspect ratio : Not available

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Particle aggregation state : Not available
Particle agglomeration state : Not available
Particle specific surface area : Not available
Particle dustiness : Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

May decompose upon contact with: Water. Acids.

10.4. Conditions to avoid

during storage. Do not allow contact with water.

10.5. Incompatible materials

Incompatible with water, humid air. Strong acids.

10.6. Hazardous decomposition products

Decomposes slowly on exposure to water (moisture). Hazardous decomposition products. oxygen. Carbon oxides (CO, CO2)

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

disodium carbonate, compound with hydrogen peroxide (2:3) (15630-89-4)		
LD50 oral rat	1034 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	

sodium carbonate (497-19-8)		
LD50 oral rat	2800 mg/kg bodyweight Animal: rat	
LD50 oral	4090 mg/kg bodyweight	
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: other:	
LD50 dermal	> 2000 mg/kg bodyweight	
LC50 Inhalation - Rat (Dust/Mist)	2300 mg/l	

Citric acid, monohydrate (5949-29-1)	
LD50 oral	5400 mg/kg bodyweight Animal: mouse, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:, 95% CL: 4500 - 6400
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

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LD50 dermal	> 2000 mg/kg bodyweight
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(1-hydroxyethylidene)bisphosphonic acid, sodium salt (29329-71-3)	
LD50 oral rat	2850 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:, 95% CL: 2489 - 3211
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:

fatty alcohol polyglycol ethers, modified	
LD50 oral rat	> 2000 mg/kg

Skin corrosion/irritation : Not classified

pH: 10

Serious eye damage/irritation : Causes serious eye irritation.

pH: 10

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

(1-hydroxyethylidene)bisphosphonic acid, sodium salt (29329-71-3)		
NOAEL (chronic, oral, animal/male, 2 years)	≥ 384 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)	
NOAEL (chronic, oral, animal/female, 2 years)	≥ 493 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)	

Reproductive toxicity : Not classified

(1-hydroxyethylidene)bisphosphonic acid, sodium salt (29329-71-3)	
NOAEL (animal/male, F1)	≈ 294 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 415 [One-
	Generation Reproduction Toxicity Study (before 9 October 2017)]

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Citric acid, monohydrate (5949-29-1)	
LOAEL (oral, rat, 90 days)	8000 mg/kg bodyweight Animal: rat
NOAEL (oral, rat, 90 days)	4000 mg/kg bodyweight Animal: rat

(1-hydroxyethylidene)bisphosphonic acid, sodium salt (29329-71-3)	
LOAEL (oral, rat, 90 days)	169 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other:
NOAEL (oral, rat, 90 days)	41 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other:
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

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Bartscher Cleaning tabs KV-20	
Viscosity, kinematic	Not applicable

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : We have no quantitative data concerning the ecological effects of this product.

Hazardous to the aquatic environment, short-term

acute

: Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

disodium carbonate, compound with hydrogen peroxide (2:3) (15630-89-4)	
LC50 - Fish [1]	70.7 mg/l Pimephales promelas Minnows
EC50 - Crustacea [1]	4.9 mg/l Daphnia magna (Water flea)
ErC50 algae	2.62 mg/l Skeletonema costatum (marine diatom)

sodium carbonate (497-19-8)	
LC50 - Fish [1]	300 mg/l Test organisms (species): Lepomis macrochirus
EC50 - Crustacea [1]	200 – 227 mg/l Test organisms (species): Ceriodaphnia sp.
EC50 - Crustacea [2]	200 – 227 mg/l Test organisms (species): Ceriodaphnia sp.
EC50 - Other aquatic organisms [1]	265 mg/l waterflea

Citric acid, monohydrate (5949-29-1)	
LC50 - Fish [1]	> 100 mg/l
EC50 - Other aquatic organisms [1]	85 mg/l waterflea

(1-hydroxyethylidene)bisphosphonic acid, sodium salt (29329-71-3)	
LC50 - Fish [1]	195 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	527 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	1770 mg/l Test organisms (species): Palaemonetes pugio
NOEC (chronic)	6.75 mg/l Test organisms (species): Daphnia magna Duration: '28 d'

fatty alcohol polyglycol ethers, modified	
EC50 72h - Algae [1]	> 100 mg/l Scenedesmus subspicatus

12.2. Persistence and degradability

Bartscher Cleaning tabs KV-20	
ũ ,	No data is available on the degradability of this product. Neutralisation is necessary before draining of to the purification plant.

fatty alcohol polyglycol ethers, modified	
Biodegradation	> 60 % 28 days

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12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (Log Pow) -6.19

Citric acid, monohydrate (5949-29-1)

Partition coefficient n-octanol/water (Log Pow)

-1.72

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Bartscher Cleaning tabs KV-20

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Component

fatty alcohol polyglycol ethers, modified

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

Product/Packaging disposal recommendations

Additional information

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- Dispose in a safe manner in accordance with local/national regulations.
- : Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

R code/ D code : D10 - Incineration on land

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID	
14.1. UN number or ID number					
Not regulated	Not regulated	Not regulated	Not applicable	Not applicable	
14.2. UN proper shipping name					
Not regulated	Not regulated	Not regulated	Not applicable	Not applicable	
14.3. Transport hazard class(es)					
Not regulated	Not regulated	Not regulated	Not applicable	Not applicable	
14.4. Packing group					
Not regulated	Not regulated	Not regulated	Not applicable	Not applicable	
14.5. Environmental hazards					
Not regulated	Not regulated	Not regulated	Not applicable	Not applicable	
No supplementary information available					

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14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : 0 %

Other information, restriction and prohibition

regulations

: Detergent Regulation.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

For the following substances of this mixture a chemical safety assessment has been carried out

sodium carbonate

SECTION 16: Other information Abbreviations and acronyms: 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 ATE Acute Toxicity Estimate **BCF** Bioconcentration factor BLV Biological limit value BOD Biochemical oxygen demand (BOD) COD Chemical oxygen demand (COD) DMEL Derived Minimal Effect level DNEL Derived-No Effect Level

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EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H272	May intensify fire; oxidiser.	
H302	Harmful if swallowed.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H373	May cause damage to organs through prolonged or repeated exposure.	
Ox. Sol. 3	Oxidising Solids, Category 3	
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2	

The classification complies with : ATP 12

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SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.