

BCL Aktiengesellschaft
92439 Bodenwöhr

Date printed 12.04.2023, Revision 05.12.2022

Version 3.0. Supersedes version: 2.0

Page 1 / 12

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

1.1 Product identifier

BCL®-Dental-Plus
UFI: MK64-00KV-200E-YSHN

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

1.2.1 Relevant uses

Cleaning agent

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

BCL Aktiengesellschaft
Bürgermeister-Wiendl-Str. 9
92439 Bodenwöhr / GERMANY
Phone +49 (0)9434 20398 0
Fax +49 (0)9434 20398 28
Homepage www.bcl-ag.de
E-mail info@bcl-mail.de

Address enquiries to

Technical information

info@bcl-mail.de

Safety Data Sheet

sdb@reinigungsprodukt.eu

1.4 Emergency telephone number

Advisory body

+49 (0) 228-19240 (24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Eye Irrit. 2: H319 Causes serious eye irritation.

2.2 Label elements

Hazard pictograms



Signal word

WARNING

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P260 Do not breathe spray.
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.

Cleaner, 648/2004/CE, contains:

< 5% polycarboxylates
< 5% non-ionic surfactants
< 5% anionic surfactant

2.3 Other hazards

Human health dangers

Frequent persistent contact with the skin can cause skin irritation.
Contains no ingredients with endocrine-disrupting properties.

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

Further hazards were not determined with the current level of knowledge.

BCL Aktiengesellschaft
92439 Bodenwöhr

Date printed 12.04.2023, Revision 05.12.2022

Version 3.0. Supersedes version: 2.0

Page 2 / 12

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
5 - < 10	2-(2-Butoxyethoxy)ethanol CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, Reg-No.: 01-2119475104-44-XXXX GHS/CLP: Eye Irrit. 2: H319
1 - < 3	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts CAS: 68411-30-3, EINECS/ELINCS: 270-115-0, Reg-No.: 01-2119489428-22-XXXX GHS/CLP: Acute Tox. 4: H302 - Skin Irrit. 2: H315 - Eye Dam. 1: H318 - Aquatic Chronic 3: H412

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.

Inhalation

Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact

When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

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.

Ingestion

Seek medical advice immediately.
Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
If swallowed or in the event of vomiting, risk of product entering the lungs.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.

Extinguishing media that must not be used

Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

BCL Aktiengesellschaft
92439 Bodenwöhr

Date printed 12.04.2023, Revision 05.12.2022

Version 3.0. Supersedes version: 2.0

Page 3 / 12

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
The normal safety precautions for handling chemicals must be observed.

Do not eat, drink, smoke or take drugs at work.
Use barrier skin cream.
Wash hands before breaks and after work.
Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.
Do not store together with food and animal food/diet.
Keep container tightly closed.
Keep container in a well-ventilated place.
Keep away from frost.
Protect from heat/overheating.

7.3 Specific end use(s)

See product use, SECTION 1.2

BCL Aktiengesellschaft

92439 Bodenwöhr

Date printed 12.04.2023, Revision 05.12.2022

Version 3.0. Supersedes version: 2.0

Page 4 / 12

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
2-(2-Butoxyethoxy)ethanol
CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, Reg-No.: 01-2119475104-44-XXXX
Eight hours: 10 ppm, 67,5 mg/m ³
Short-term (15-minute): 15 ppm, 101,2 mg/m ³

DNEL

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
Industrial, dermal, Long-term - systemic effects, 119 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 7.6 mg/m ³
general population, oral, Long-term - systemic effects, 0.425 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 42.5 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 1.3 mg/m ³
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
Industrial, dermal, Long-term - systemic effects, 6.25 mg/kg bw/day
Industrial, inhalative, Acute - local effects, 101.2 mg/m ³
Industrial, inhalative, Long-term - local effects, 67.5 mg/m ³

PNEC

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
freshwater, 0.268 mg/L
seawater, 0.027 mg/L
sewage treatment plants (STP), 3.43 mg/L
sediment (freshwater), 8.1 mg/kg sediment dw
sediment (seawater), 6.8 mg/kg sediment dw
soil, 35 mg/kg
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
oral (food), 56 mg/kg food
soil, 0.32 mg/kg soil dw
freshwater, 1.1 mg/l
seawater, 0.11 mg/l
sediment (freshwater), 4.4 mg/kg
sediment (seawater), 0.44 mg/kg

BCL Aktiengesellschaft
92439 Bodenwöhr

Date printed 12.04.2023, Revision 05.12.2022

Version 3.0. Supersedes version: 2.0

Page 5 / 12

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	0.4mm butyl rubber, > 120 min (EN 374) The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing (EN 340)
Other	Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Do not inhale aerosols.
Respiratory protection	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, filter P2. (DIN EN 143)
Thermal hazards	none
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	liquid
Color	blue
Odor	characteristic
Odour threshold	not relevant
pH-value	10.8 - 11.4
pH-value [1%]	not determined
Boiling point [°C]	not determined
Flash point [°C]	not applicable
Flammability	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/cm³]	1.0 - 1.04 (20 °C / 68,0 °F)
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	completely miscible
Solubility other solvents	not relevant
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	not relevant
Relative vapour density	not relevant
Evaporation speed	not relevant
Melting point [°C]	not determined
Auto-ignition temperature [°C]	not self-igniting
Decomposition temperature [°C]	not determined
Particle characteristics	not applicable

BCL Aktiengesellschaft
92439 Bodenwöhr

Date printed 12.04.2023, Revision 05.12.2022

Version 3.0. Supersedes version: 2.0

Page 6 / 12

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Reactions with acids.

10.4 Conditions to avoid

Heating

10.5 Incompatible materials

Acids

10.6 Hazardous decomposition products

No hazardous decomposition products known.

BCL Aktiengesellschaft
92439 Bodenwöhr

Date printed 12.04.2023, Revision 05.12.2022

Version 3.0. Supersedes version: 2.0

Page 7 / 12

SECTION 11: Toxicological information

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

Acute oral toxicity

Product
ATE-mix, oral, > 2000 mg/kg
Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
LD50, oral, Rat, 1080 mg/kg OECD 401
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
LD50, oral, mouse, 2410 - 5530 mg/kg bw

Acute dermal toxicity

Product
ATE-mix, dermal, > 2000 mg/kg
Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
LD50, dermal, Rat, > 2000 mg/kg OECD 402
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
LD50, dermal, Rabbit, 2764 mg/kg bw

Acute inhalational toxicity

Product
ATE-mix, inhalation (vapour), > 20 mg/L 4h

Serious eye damage/irritation

Irritant
Based on the available information, the classification criteria are fulfilled.
Toxicological data of complete product are not available.
Calculation method

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
Eye, Causes serious eye damage.
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
Eye, irritant

Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
dermal, irritant
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
dermal, non-irritating

Respiratory or skin sensitisation

Does not contain a relevant substance that meets the classification criteria.
Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3

BCL Aktiengesellschaft

92439 Bodenwöhr

Date printed 12.04.2023, Revision 05.12.2022

Version 3.0. Supersedes version: 2.0

Page 8 / 12

dermal, non-sensitizing

2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5

dermal, non-sensitizing

Specific target organ toxicity — single exposure

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

Specific target organ toxicity — repeated exposure

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

Substance

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3

NOAEL, dermal, Rat, 2500 mg/kg bw/day (subchronic), no adverse effect observed

NOAEL, oral, Rat, 85 mg/kg bw/day (subchronic), The effects observed are not sufficient for classification.

2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5

NOAEL, oral, Rat, 250 mg/kg bw/day (subchronic), The effects observed are not sufficient for classification.

NOAEC, inhalative, Rat, 94 mg/m³ (subchronic), The effects observed are not sufficient for classification.

Mutagenicity

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

Substance

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3

in vivo, negativ

in vitro, negativ

Reproduction toxicity

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

- Fertility

Substance

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3

NOAEL, oral, Rat, 350 mg/kg bw/day (chronic), no adverse effect observed

- Development

Substance

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3

NOAEL, oral, mouse, 300 mg/kg bw/day (chronic), no adverse effect observed

Carcinogenicity

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

Aspiration hazard

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled.

General remarks

none

11.2 Information on other hazards

Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

Other information

BCL Aktiengesellschaft
92439 Bodenwöhr

Date printed 12.04.2023, Revision 05.12.2022

Version 3.0. Supersedes version: 2.0

Page 9 / 12

SECTION 12: Ecological information

12.1 Toxicity

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
LC50, (96h), <i>Lepomis macrochirus</i> , > 1 - 10 mg/l (Lit.)
EC50, (48h), <i>Daphnia magna</i> , > 1 - 10 mg/l OECD 202 (Lit.)
NOEC, (28d), <i>Poecilia reticulata</i> , 3.2 mg/L
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
LC50, (96h), <i>Lepomis macrochirus</i> , 1300 mg/l (IUCLID)
EC50, (48h), <i>Daphnia magna</i> , > 100 mg/l (IUCLID)

12.2 Persistence and degradability

Behaviour in environment compartments not determined

Behaviour in sewage plant not determined

Biological degradability The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.
Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

None known.

BCL Aktiengesellschaft
92439 Bodenwöhr

Date printed 12.04.2023, Revision 05.12.2022

Version 3.0. Supersedes version: 2.0

Page 10 / 12

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Coordinate disposal with the authorities if necessary.
Dispose of as hazardous waste.

Waste no. (recommended) 200129*

Contaminated packaging

Uncontaminated packaging may be reused.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

BCL Aktiengesellschaft
92439 Bodenwöhr

Date printed 12.04.2023, Revision 05.12.2022

Version 3.0. Supersedes version: 2.0

Page 11 / 12

14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

EEC-REGULATIONS 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)

NATIONAL REGULATIONS (EU):

- Observe employment restrictions for people Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.

- VOC (2010/75/CE) 1 %

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H412 Harmful to aquatic life with long lasting effects.
H318 Causes serious eye damage.
H315 Causes skin irritation.
H302 Harmful if swallowed.
H319 Causes serious eye irritation.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

Modified position

none