

BCL Aktiengesellschaft
92439 Bodenwöhr

Date printed 12.04.2023, Revision 30.11.2022

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®-Denta-Plac
UFI: FRC4-D00P-F004-N8GH

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]

Skin Corr. 1B: H314 Causes severe skin burns and eye damage.
Eye Dam. 1: H318 Causes serious eye damage.
Met. Corr. 1: H290 May be corrosive to metals.

2.2 Label elements

Hazard pictograms



Signal word

DANGER

Contains:

Phosphoric acid

Hazard statements

H314 Causes severe skin burns and eye damage.
H290 May be corrosive to metals.

Precautionary statements

P260 Do not breathe spray.
P280 Wear protective gloves / protective clothing / 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.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P310 Immediately call a POISON CENTER / doctor.
P390 Absorb spillage to prevent material damage.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/national regulation.

Cleaner, 648/2004/CE, contains:

< 5% non-ionic surfactants

BCL Aktiengesellschaft
92439 Bodenwöhr

Date printed 12.04.2023, Revision 30.11.2022

Version 3.0. Supersedes version: 2.0

Page 2 / 12

2.3 Other hazards

Human health dangers	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.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
30 - 40	Phosphoric acid
	CAS: 7664-38-2, EINECS/ELINCS: 231-633-2, EU-INDEX: 015-011-00-6, Reg-No.: 01-2119485924-24-XXXX
	GHS/CLP: Met. Corr. 1: H290 - Skin Corr. 1B: H314
	SCL [%]: >=10 - <25: Eye Irrit. 2: H319, >=10 - <25: Skin Irrit. 2: H315, >= 25: Skin Corr. 1B: H314

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	Remove the victim into fresh air and keep him calm. In the event of symptoms seek medical treatment.
Skin contact	In case of contact with skin wash off immediately with soap and water. Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor immediately.
Ingestion	Consult a doctor 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

Product is caustic.

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.

BCL Aktiengesellschaft
92439 Bodenwöhr

Date printed 12.04.2023, Revision 30.11.2022

Version 3.0. Supersedes version: 2.0

Page 3 / 12

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Wear full protective suit.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

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.
Use personal protective equipment (protective gloves, safety glasses, protective clothing).

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.
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
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.
Do not store with alkalis.
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 30.11.2022

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
Phosphoric acid
CAS: 7664-38-2, EINECS/ELINCS: 231-633-2, EU-INDEX: 015-011-00-6, Reg-No.: 01-2119485924-24-XXXX
Eight hours: 1 mg/m ³
Short-term (15-minute): 2 mg/m ³

DNEL

Substance
Phosphoric acid, CAS: 7664-38-2
Industrial, inhalative, Acute - local effects, 2 mg/m ³
Industrial, inhalative, Long-term - local effects, 1 mg/m ³
Industrial, inhalative, Long-term - systemic effects, 10.7 mg/m ³
general population, oral, Long-term - systemic effects, 0.1 mg/kg bw/day
general population, inhalative, Long-term - local effects, 0.36 mg/m ³
general population, inhalative, Long-term - systemic effects, 4.57 mg/m ³

PNEC

Substance
Phosphoric acid, CAS: 7664-38-2
There are no PNEC values established for the substance.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Tightly fitting goggles. (EN 166:2001)
Hand protection	0.4mm Butyl rubber, >480 min (EN 374-1/-2/-3). 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.

BCL Aktiengesellschaft

92439 Bodenwöhr

Date printed 12.04.2023, Revision 30.11.2022

Version 3.0. Supersedes version: 2.0

Page 5 / 12

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	liquid
Color	red
Odor	characteristic
Odour threshold	not relevant
pH-value	0.2 - 1
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/cm ³]	1.19 - 1.22 (20 °C / 68,0 °F)
Relative density	not determined
Bulk density [kg/m ³]	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

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 alkalis (lyes).
Reactions with metals, with evolution of hydrogen.

10.4 Conditions to avoid

Heating

10.5 Incompatible materials

Alkalies

10.6 Hazardous decomposition products

No hazardous decomposition products known.

BCL Aktiengesellschaft
92439 Bodenwöhr

Date printed 12.04.2023, Revision 30.11.2022

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
Phosphoric acid, CAS: 7664-38-2
LD50, oral, Rat, 2600 mg/kg (OECD 423)

Acute dermal toxicity

Product
ATE-mix, dermal, > 2000 mg/kg
Substance
Phosphoric acid, CAS: 7664-38-2
LD50, dermal, Rabbit, 2740 mg/kg

Acute inhalational toxicity

Product
ATE-mix, inhalativ (mist), > 5 mg/L 4h

Serious eye damage/irritation

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

Substance
Phosphoric acid, CAS: 7664-38-2
Eye, corrosive

Skin corrosion/irritation

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

Substance
Phosphoric acid, CAS: 7664-38-2
dermal, corrosive

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.

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
Phosphoric acid, CAS: 7664-38-2
LOAEL, oral, Rat, 155 mg/kg bw/day (subchronic), The effects observed are not sufficient for classification.

Mutagenicity

Does not contain a relevant substance that meets the classification criteria.

BCL Aktiengesellschaft
92439 Bodenwöhr

Date printed 12.04.2023, Revision 30.11.2022 Version 3.0. Supersedes version: 2.0 Page 8 / 12

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

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 No information available.

- Development

Substance
Phosphoric acid, CAS: 7664-38-2
NOAEL, oral, mouse, 370 mg/kg bw/day, OECD 422, 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.

Substance
Phosphoric acid, CAS: 7664-38-2
negativ

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

SECTION 12: Ecological information

12.1 Toxicity

Substance
Phosphoric acid, CAS: 7664-38-2
EC50, (72h), Desmodesmus subspicatus, > 100 mg/L (OECD 201)
EC50, (48h), Daphnia magna, > 100 mg/L (OECD 202)
NOEC, (72h), Desmodesmus subspicatus, 100 mg/L (OECD 201)
NOEC, (48h), Daphnia magna, 56 mg/L (OECD 202)

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.

BCL Aktiengesellschaft

92439 Bodenwöhr

Date printed 12.04.2023, Revision 30.11.2022

Version 3.0. Supersedes version: 2.0

Page 9 / 12

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.

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*
060104*

Contaminated packaging

Untaminated 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 1805

Inland navigation (ADN) 1805

Marine transport in accordance with IMDG 1805

Air transport in accordance with IATA 1805

BCL Aktiengesellschaft
92439 Bodenwöhr

Date printed 12.04.2023, Revision 30.11.2022

Version 3.0. Supersedes version: 2.0

Page 10 / 12

14.2 UN proper shipping name

Transport by land according to ADR/RID Phosphoric acid, solution

- Classification Code C1

- Label



- ADR LQ 5 l

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 3 (E)

Inland navigation (ADN) Phosphoric acid, solution

- Classification Code C1

- Label



Marine transport in accordance with IMDG Phosphoric acid solution

- EMS F-A, S-B

- Label



- IMDG LQ 5 l

Air transport in accordance with IATA Phosphoric acid, solution

- Label



14.3 Transport hazard class(es)

Transport by land according to ADR/RID 8

Inland navigation (ADN) 8

Marine transport in accordance with IMDG 8

Air transport in accordance with IATA 8

14.4 Packing group

Transport by land according to ADR/RID III

Inland navigation (ADN) III

Marine transport in accordance with IMDG III

Air transport in accordance with IATA III

BCL Aktiengesellschaft
92439 Bodenwöhr

Date printed 12.04.2023, Revision 30.11.2022

Version 3.0. Supersedes version: 2.0

Page 11 / 12

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) 0%

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H314 Causes severe skin burns and eye damage.
H290 May be corrosive to metals.

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

Skin Corr. 1B: H314 Causes severe skin burns and eye damage. (Calculation method)
Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)
Met. Corr. 1: H290 May be corrosive to metals. (Calculation method)

Modified position

SECTION 11 been added: Contains no ingredients with endocrine-disrupting properties.