according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations



Article No.: Print date: Version: ZZ29000AAF10 06.03.2023 Brilliance NeutralCleaner Konz Revision date: 06.03.2023 Issue date: 06.03.2023

56142 US Page 1 / 9

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

1.1. Product identifier

Article No. (manufacturer/supplier) ZZ29000AAF10

Trade name/designation Brilliance NeutralCleaner Konz

Konzentrat

Stat.Warennummer: 3405.20.000 UFI: MESH-M4CR-0008-KP3N

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

Relevant identified uses

paint and/or paint related material

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

Berger-Seidle GmbH

Parkettlacke - Klebstoffe - Bauchemie Telephone: +49 6359 / 8005-0 Maybachstraße 2 Telefax: +49 6359 / 8005-170

67269 Grünstadt

Germany

Department responsible for information:

Laboratory

E-mail Sicherheitsdaten@berger-seidle.de

1.4. Emergency telephone number

24-hour emergency number in side USA: +1 872 5888271 or +11 49 700 24112112 (BLG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Aquatic Acute 3 / H402 Hazardous to the aquatic environment Harmful to aquatic organisms.

2.2. Label elements

GHS-US labeling

Hazard pictograms

Hazard statements

H402 Harmful to aquatic organisms.

Precautionary statements

P273 Avoid release to the environment.

P501 Dispose of contents/container to industrial incineration plant.

Hazard components for labelling

2.3. Other hazards

No information available.

Other information

If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description Wassser, Lösemittel und Tenside

Hazardous ingredients GHS-US classification

CAS No.	Designation // Remark	weight-%
166736-08-9	Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether	2,5 - 5

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations



Article No.: Print date: Version: ZZ29000AAF10 06.03.2023 10.0001 Brilliance NeutralCleaner Konz Revision date: 06.03.2023 Issue date: 06.03.2023

56142 US Page 2 / 9

68515-73-1	D-Glucopyranose, oligomers, decyl octyl glycosides	1 - 2,5
67-63-0	propan-2-ol	1 - 2,5
5989-27-5	(R)-p-mentha-1,8-diene	0,1 - 0,25
3811-73-2	Pyridine-2-thiol 1-oxide, sodium salt	< 0,1
2634-33-5	1,2-benzisothiazol-3(2H)-one	< 0,1

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Unsuitable extinguishing media

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations



Article No.: Print date: Version: ZZ29000AAF10 06.03.2023 10.0001 Brilliance NeutralCleaner Konz Revision date: 06.03.2023 Issue date: 06.03.2023

56142 US Page 3 / 9

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Further information

Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 25 °C. Protect from heat and direct sunlight.

Due to the content of organic solvents in the preparation:

Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

propan-2-ol

Index No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0

IDLH, TWA: 2000 ppm [10% LEL]
OSHA, TWA: 980 mg/m3; 400 ppm
NIOSH, TWA: 980 mg/m3; 400 ppm
NIOSH, STEL: 1225 mg/m3; 500 ppm
ACGIH, TWA: 492 mg/m3; 200 ppm
ACGIH, STEL: 984 mg/m3; 400 ppm

ACGIH-BEI, TWA: 40 mg/L

Remark: Acetone in urine; urine; end of shift at end of workweek

Additional information

TWA: Long-term occupational exposure limit value STEL: short-term occupational exposure limit value

C: peak limitation

DNEL:

propan-2-ol

Index No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0 DNEL long-term dermal (systemic), Workers: 888 mg/kg bw/day DNEL long-term inhalative (systemic), Workers: 500 mg/m³ DNEL long-term dermal (systemic), Consumer: 319 mg/kg bw/day

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations



Article No.: ZZ29000AAF10 Brilliance NeutralCleaner Konz Print date: 06.03.2023 Revision date: 06.03.2023

 Print date:
 06.03.2023
 Revision date: 06.03.2023
 56142 US

 Version:
 10.0001
 Issue date: 06.03.2023
 Page 4 / 9

DNEL long-term inhalative (systemic), Consumer: 89 mg/m³

DNEL long-term exposure oral (systemic effects), Consumer: 26 mg/kg bw/day

PNEC:

propan-2-ol

Index No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0

PNEC aquatic, freshwater: 140,9 mg/L PNEC aquatic, marine water: 140,9 mg/L PNEC sediment, freshwater: 552 mg/kg PNEC sediment, marine water: 552 mg/kg

PNEC, soil: 28 mg/kg

PNEC sewage treatment plant (STP): 2251 mg/L PNEC water, intermittent release: 140,9 mg/L

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Personal protection equipment

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection

For prolonged or repeated handling the following glove material must be used: Butyl caoutchouc (butyl rubber)

Thickness of the glove material > 0,4 mm; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection

Wear closely fitting protective glasses in case of splashes.

Body protection

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid colour: colourless

Odour: characteristic

Odour threshold: not applicable

Initial boiling point and boiling range: 82 °C

Source: propan-2-ol

Lower and upper explosion limit:

Lower explosion limit: 1,33 Vol-% Upper explosion limit: 14 Vol-%

Source: (2-methoxymethylethoxy)propanol

Flash point: 105 °C
Auto-ignition temperature: 207 °C

Source: (2-methoxymethylethoxy)propanol

Decomposition temperature: not applicable

pH at 20 °C: not applicable

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations



Article No.: Print date: Version: ZZ29000AAF10 06.03.2023 10.0001 Brilliance NeutralCleaner Konz Revision date: 06.03.2023 Issue date: 06.03.2023

56142 US Page 5 / 9

Cinematic viscosity (40°C): 20 mm²/s Viscosity at 20 °C: 12 s 4 mm

Method: DIN 53211

Solubility(ies):

Water solubility at 20 °C: miscible
Partition coefficient: n-octanol/water: see section 12
Vapour pressure at 20 °C: 44 mbar

Method: calculated. Source: propan-2-ol

Density and/or relative density:

Density at 20 °C: 1,00 g/cm³

Method: ISO 2811, part 3

Relative vapour density: not applicable particle characteristics: not applicable

9.2. Other information

Solvent separation test: < 3 weight-% (ADR/RID)

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. Incompatible materials

not applicable

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

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

Acute toxicity

propan-2-ol

oral, LD50, Rat: 4570 mg/kg dermal, LD50, Rabbit: 13400 mg/kg

inhalative (vapours), LC50, Rat: 30 mg/L (4 h)

1,2-benzisothiazol-3(2H)-one oral, LD50, Rat: 1150 mg/kg dermal, LD50, Rat: > 2000 mg/kg inhalative (vapours), LC50, Rat (4 h)

Skin corrosion/irritation; Serious eye damage/eye irritation

propan-2-ol eyes Skin

1,2-benzisothiazol-3(2H)-one

Skin eyes

Respiratory or skin sensitisation

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations



Article No.: Print date: Version: ZZ29000AAF10 06.03.2023 10.0001 Brilliance NeutralCleaner Konz Revision date: 06.03.2023 Issue date: 06.03.2023

56142 US Page 6 / 9

1,2-benzisothiazol-3(2H)-one

Skin:

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

propan-2-ol

Germ cell mutagenicity; Evaluation Non-mutagenic

STOT-single exposure; STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

propan-2-ol

Aspiration hazard; Evaluation While swallowing or vomiting, pulmonary aspiration may cause chemical pneumonitis, leading to death

(R)-p-mentha-1,8-diene Aspiration hazard

Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Remark

There is no information available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

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

Do not allow to enter into surface water or drains.

12.1. Toxicity

Harmful to aquatic organisms.

propan-2-ol

Algae toxicity, EC50, Scenedesmus subspicatus: > 1000 mg/L (72 h)

Algae toxicity, EC50: > 100 mg/L Fish toxicity, EC50: > 100 mg/L

Daphnia toxicity, EC50: > 100 mg/L

1,2-benzisothiazol-3(2H)-one

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 1,6 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 2,94 mg/L (48 h)

Algae toxicity, EC50, Pseudokirchneriella subcapitata: 0,11 mg/L (72 h)

Pyridine-2-thiol 1-oxide, sodium salt

Fish toxicity, LC50, Danio rerio (zebrafish): 0,0076 mg/L (96 h)

Long-term Ecotoxicity

propan-2-ol

Fish toxicity, LC50, Pimephales promelas: 9640 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 13299 mg/L (48 h)

Algae toxicity, EC50, Desmodesmus subspicatus: > 1000 mg/L (96 h)

Fish toxicity, LC50, Pimephales promelas: 11130 mg/L (96 h)

12.2. Persistence and degradability

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations



Article No.: Print date: Version: ZZ29000AAF10 06.03.2023 10.0001 Brilliance NeutralCleaner Konz Revision date: 06.03.2023

Issue date: 06.03.2023

56142 US Page 7 / 9

propan-2-ol

, BOD (% of COD).: 62 % ; Evaluation Biodegradable.

: 2,32 g oxigen/kg

1,2-benzisothiazol-3(2H)-one

OECD 302B: 90 % ; Evaluation Does not accumulate in organisms.

Activated sludge

OECD 303A: > 70 %; Evaluation Does not accumulate in organisms.

Activated sludge

12.3. Bioaccumulative potential

propan-2-ol

Partition coefficient: n-octanol/water: -0,16

1,2-benzisothiazol-3(2H)-one

Partition coefficient: n-octanol/water: 0,7 ; Evaluation The aquatic toxic ingredients are biodegradable.

Bioconcentration factor (BCF)

Toxicological data are not available.

12.4. Mobility in soil

Toxicological data are not available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product

Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

080112 waste paint and varnish other than those mentioned in 08 01 11

Appropriate disposal / Package

Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

No dangerous good in sense of this transport regulation.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

Land transport (ADR/RID) not applicable
Marine pollutant not applicable

14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations



Article No.: Print date: Version: ZZ29000AAF10 06.03.2023 10.0001 Brilliance NeutralCleaner Konz Revision date: 06.03.2023 Issue date: 06.03.2023

56142 US Page 8 / 9

Further information

Land transport (ADR/RID)

Tunnel restriction code

Sea transport (IMDG)

EmS-No. not applicable

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

US Federal regulations

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

This product is not classified according to Directive 2012/18/EU.

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC-value (in g/L) ISO 11890-2: 87 VOC-value (in g/L) ASTM D2369: 774

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Full text of classification in section 3:

Harmful if swallowed. Acute Tox. 4 / H302 Acute toxicity (oral) Eye Dam. 1 / H318 Serious eye damage/eye irritation Causes serious eye damage. Flam. Liq. 2 / H225 Flammable liquids Highly flammable liquid and vapour. Eye Irrit. 2 / H319 Serious eye damage/eye irritation Causes serious eye irritation. STOT SE 3 / H336 STOT-single exposure May cause drowsiness or dizziness. Skin Irrit. 2 / H315 Skin corrosion/irritation Causes skin irritation. Skin Sens. 1B / H317 Respiratory or skin sensitisation May cause an allergic skin reaction.

Asp. Tox. 1 / H304 Aspiration hazard May be fatal if swallowed and enters airways. Aquatic Chronic 1 / H410 Hazardous to the aquatic environment Very toxic to aquatic life with long lasting

Flam. Liq. 3 / H226 Flammable liquids Flammable liquid and vapour.
Acute Tox. 3 / H311 Acute toxicity (dermal) Toxic in contact with skin.

Acute Tox. 3 / H331 Acute toxicity (inhalative) Toxic if inhaled.

Skin Sens. 1 / H317 Respiratory or skin sensitisation May cause an allergic skin reaction.

STOT RE 1 / H372 STOT-repeated exposure Causes damage to organs (or state all organs

affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of

exposure cause the hazard).

Aquatic Acute 1 / H400 Hazardous to the aquatic environment Very toxic to aquatic organisms.

Aquatic Chronic 2 / H411 Hazardous to the aquatic environment Toxic to aquatic life with long lasting effects.

Acute Tox. 2 / H330 Acute toxicity (inhalative) Fatal if inhaled.

Classification procedure

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Aquatic Acute 3 Hazardous to the aquatic environment Calculation method.

Abbreviations and acronyms

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

OEL Occupational Exposure Limit Value

BLV Biological Limit Value
CAS Chemical Abstracts Service

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations



56142 US

Page 9 / 9

Article No.: ZZ29000AAF10 Brilliance NeutralCleaner Konz
Print date: 06.03.2023 Revision date: 06.03.2023
Version: 10.0001 Issue date: 06.03.2023

CLP Classification, Labelling and Packaging
CMR Carcinogenic, Mutagenic and Reprotoxic

DIN German Institute for Standardization / German industrial standard

DNEL Derived No-Effect Level

EAKV European Waste Catalogue Directive

EC Effective Concentration
EC European Community
EN European Standard

IATA-DGR International Air Transport Association – Dangerous Goods Regulations

IBC Code International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk ICAO-TI International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous

Goods by Air

IMDG Code International Maritime Code for Dangerous Goods ISO International Organization for Standardization

LC Lethal Concentration

LD Lethal Dose

MARPOL Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

OECD Organisation for Economic Cooperation and Development

PBT persistent, bioaccumulative, toxic
PNEC Predicted No Effect Concentration

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

UN United Nations

VOC Volatile Organic Compounds

vPvB very persistent and very bioaccumulative

Further information

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.