

Bohle Premium Glass Cleaner

Revision date: 01/11/2023

Product code: BO5107806

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1. Identification
Product identifier

Bohle Premium Glass Cleaner

Further trade names

BO 5107805, 1000 ml

BO 5107807, 12 l

BO 5107806, 25 l

Recommended use of the chemical and restrictions on use
Use of the substance/mixture

Cleaning agent

Details of the supplier of the safety data sheet
Manufacturer

| | | |
|-------------------------|-------------------|------------------------------|
| Company name: | BOHLE AG | |
| Street: | Dieselstr. 10 | |
| Place: | 42781 Haan | |
| Telephone: | +49 2129 5568-0 | Telefax: +49 2129 5568-282 |
| e-mail: | info@bohle.de | |
| Contact person: | Dr. Martin Schade | Telephone: +49 2129 5568-300 |
| e-mail: | MSDS@bohle.de | |
| Internet: | www.bohle.com | |
| Responsible Department: | Chemie | |

Trader of the product

| | |
|--------------------------|---------------------------------|
| Company name: | Bohle America, Inc. |
| Street: | 10924 Granite Street, Suite 200 |
| Place: | USA-NC 28273 Charlotte |
| e-mail (Contact person): | sales@bohle.com |

Emergency phone number: Emergency CONTACT (24-Hour-Number):GBK GmbH +49 (0)6132-84463

2. Hazard(s) identification
Label elements
Additional advice on labelling

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

3. Composition/information on ingredients
Mixtures
Hazardous components

| CAS No | Components | | | Quantity |
|----------|--|--------------|------------------|------------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 111-76-2 | 2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether | | | 5 - < 10 % |
| | 203-905-0 | 603-014-00-0 | 01-2119475108-36 | |
| | Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H332 H302 H315 H319 | | | |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | 1 - < 5 % |
| | 200-661-7 | 603-117-00-0 | 01-2119457558-25 | |
| | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 | | | |

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

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Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Components | Quantity |
|----------|-----------|--|----------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 111-76-2 | 203-905-0 | 2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether | 9 % |
| | | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: ATE 1200 mg/kg | |
| 67-63-0 | 200-661-7 | propan-2-ol; isopropyl alcohol; isopropanol | 4 % |
| | | inhalation: LC50 = 30 mg/l (vapours); dermal: LD50 = 13400 mg/kg; oral: LD50 = 4570 mg/kg | |

4. First-aid measures
Description of first aid measures
General information

Take off immediately all contaminated clothing.

After inhalation

Provide fresh air.

If symptoms persist, call a physician.

After contact with skin

Wash with plenty of water.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If symptoms persist, call a physician.

After ingestion

Rinse mouth. Let water be drunk in little sips (dilution effect).

Do NOT induce vomiting.

5. Fire-fighting measures
Extinguishing media
Suitable extinguishing media

Carbon dioxide (CO₂), Extinguishing powder, Water spray jet, alcohol resistant foam

Unsuitable extinguishing media

Full water jet

Specific hazards arising from the chemical

In case of fire may be liberated: Carbon monoxide, Carbon dioxide

Vapours are heavier than air and may spread along floors.

Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

Additional information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental release measures
Personal precautions, protective equipment and emergency procedures
General advice

Provide adequate ventilation. Wear personal protective equipment.

Environmental precautions

Dilute with plenty of water.

Methods and material for containment and cleaning up
Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

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Reference to other sections

SECTION 7: Handling and storage
 SECTION 8: Exposure controls/personal protection
 SECTION 13: Disposal considerations

7. Handling and storage
Precautions for safe handling
Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels

Keep only in the original container in a cool, well-ventilated place.

Protect from direct sunlight.

Always close containers tightly after the removal of product.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Keep/Store away from combustible materials.

Further information on storage conditions

storage temperature: -5°C - 40°C

8. Exposure controls/personal protection
Control parameters
Exposure limits

| CAS No. | Substance | ppm | mg/m ³ | f/cc | Category | Origin |
|----------|-------------------|-----|-------------------|------|---------------|--------|
| 111-76-2 | 2-Butoxyethanol | 50 | 240 | | TWA (8 h) | PEL |
| | | 5 | 24 | | TWA (8 h) | REL |
| 67-63-0 | Isopropyl alcohol | 400 | 980 | | TWA (8 h) | PEL |
| | | 400 | 980 | | TWA (8 h) | REL |
| | | 500 | 1225 | | STEL (15 min) | REL |

DNEL/DMEL values

| CAS No. | Substance | Exposure route | Effect | Value |
|---------|---|----------------|----------|-----------------------|
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | |
| | Consumer DNEL, long-term | oral | systemic | 26 mg/kg bw/day |
| | Consumer DNEL, long-term | dermal | systemic | 319 mg/kg bw/day |
| | Worker DNEL, long-term | dermal | systemic | 888 mg/kg bw/day |
| | Consumer DNEL, long-term | inhalation | systemic | 89 mg/m ³ |
| | Worker DNEL, long-term | inhalation | systemic | 500 mg/m ³ |

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PNEC values

| CAS No. | Substance | |
|--|---|------------|
| Environmental compartment | | Value |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | |
| Freshwater | | 140,9 mg/l |
| Freshwater (intermittent releases) | | 140,9 mg/l |
| Marine water | | 140,9 mg/l |
| Freshwater sediment | | 552 mg/kg |
| Marine sediment | | 552 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 2251 mg/l |
| Soil | | 28 mg/kg |

Exposure controls

Appropriate engineering controls

Even in case of a full release, due to the small amount of substances present, it is not expected that exposure limits will be reached. However it is the duty of the user to verify this and follow given exposure limits at the workplace.

Individual protection measures, such as personal protective equipment

Eye/face protection

Not required

Hand protection

Not required

Skin protection

Not required

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Combination filtering device Recommended Filter type: A-P2

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Liquid
 Color: greenish blue
 Odor: aromatic

Test method

Changes in the physical state

Boiling point or initial boiling point and boiling range: 100 °C

Self-ignition temperature not auto-flammable

pH-Value (at 20 °C): 10,8

Water solubility: completely miscible

Vapor pressure: (at 20 °C) 23 hPa

Density (at 23 °C): 0,91 g/cm³

Other information

Other safety characteristics

Solvent content: 10%

Further Information

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10. Stability and reactivity
Reactivity

None under normal processing.

Chemical stability

No decomposition if used as directed.

Possibility of hazardous reactions

No known hazardous reactions.

Conditions to avoid

None known.

Incompatible materials

None known.

Hazardous decomposition products

None known.

11. Toxicological information
Information on toxicological effects
Acute toxicity

| CAS No | Components | | | | | |
|----------|--|------------------|---------|--------|--------|--|
| | Exposure route | Dose | Species | Source | Method | |
| 111-76-2 | 2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether | | | | | |
| | oral | ATE 1200 mg/kg | | | | |
| | inhalation vapour | ATE 11 mg/l | | | | |
| | inhalation dust/mist | ATE 1,5 mg/l | | | | |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | | | |
| | oral | LD50 4570 mg/kg | Rat | | | |
| | dermal | LD50 13400 mg/kg | Rabbit | | | |
| | inhalation (4 h) vapour | LC50 30 mg/l | Rat | | | |

12. Ecological information

| CAS No | Components | | | | | |
|----------|--|------------------|-----------|--------------------------------------|--------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 111-76-2 | 2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether | | | | | |
| | Acute fish toxicity | LC50 1490 mg/l | 96 h | Lepomis macrochirus | | |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | | | |
| | Acute fish toxicity | LC50 9640 mg/l | 96 h | Pimephales promelas (fathead minnow) | | |
| | Acute algae toxicity | ErC50 >2000 mg/l | 72 h | Desmodesmus subspicatus | | |

Persistence and degradability

Readily biodegradable.

Bioaccumulative potential

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No information available.

Partition coefficient n-octanol/water

| CAS No | Components | Log Pow |
|----------|--|-------------|
| 111-76-2 | 2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether | 0,81 (25°C) |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | -0,16 |

Mobility in soil

No information available.

Results of PBT and vPvB assessment

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

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Further information

slightly hazardous to water

13. Disposal considerations
Waste treatment methods
List of Wastes Code - used product

160306 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes other than those mentioned in 16 03 05

List of Wastes Code - contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

 Contaminated packages must be completely emptied and can be re-used following proper cleaning.
 Water (with cleaning agent)

14. Transport information
Land transport (ADR/RID)
UN proper shipping name:

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

15. Regulatory information
Safety, health and environmental regulations/legislation specific for the substance or mixture
EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 40, Entry 75

2004/42/EC (VOC): 10%

Subcategory (EU-VOC): Preparatory and cleaning - Preparatory, VOC limit value: 850 g/l

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

16. Other information

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Changes

This data sheet contains changes from the previous version in section(s): 9.

Relevant H statements (full text)

| | |
|------|-----------------------------------|
| H225 | Highly flammable liquid and vapor |
| H302 | Harmful if swallowed |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H336 | May cause drowsiness or dizziness |

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)