



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 7/6/2017
Version: 8
Language: en-GB,IE
Date of print: 12/10/2017

GROHE Blue Bio-Clean

Material number 40434001

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

1.1 Product identifier

Trade name: GROHE Blue Bio-Clean

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

General use: Cleaning agent on the basis of Sodium hypochlorite.

1.3 Details of the supplier of the safety data sheet

Company name: Grohe AG
Street/POB-No.: Industriepark Edelburg
Postal Code, city: 58675 Hemer
Germany
WWW: www.grohe.com
E-mail: info@grohe.com
Telephone: +49 (0)2372 93-0
Telefax: +49 (0)2372 93-1322
Dept. responsible for information:
Telephone: +49 (0)2372 93-2037
sustainability@grohe.com

1.4 Emergency telephone number

GIZ-Nord, Göttingen, Germany,
Telephone: +49 551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Aerosol 3; H229 Pressurised container: May burst if heated.

2.2 Label elements

Labelling (CLP)

Signal word: **Warning**

Hazard statements: H229 Pressurised container: May burst if heated.

Precautionary statements:

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.



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Special labelling

Text for labelling: Do not spray in the eyes.
Registration number according to "Biozid-Meldeverordnung": N-48869.
Contains Sodium hypochlorite: min. 0.07 g/kg.
Use biocides safely. Always read the label and product information before use.

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Aqueous solution of the substances listed below with non-hazardous additions:

Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119488154-34-xxxx EC No. 231-668-3 CAS 7681-52-9	Sodium hypochlorite	< 0.1 %	Skin Corr. 1B; H314. Aquatic Acute 1; H400. (EUH031).

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

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of inhalation: Provide fresh air. In case of respiratory difficulties seek medical attention.

Following skin contact: In case of prolonged exposure: Remove residues with water. Change contaminated clothing. Then cream your skin. In case of skin irritation, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Do not induce vomiting. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.



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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings. All extinguishing agents can be applied.

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

Pressurised container: May burst if heated.

Fires in the immediate vicinity may cause the development of dangerous vapours.

In case of fire may be liberated: Chlorine decomposition products, carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus. Wear appropriate protective equipment.

Additional information:

Hazchem-Code: -

Heating causes rise in pressure with risk of bursting. Cool endangered containers with water spray and, if possible, remove from danger zone. Use water spray jet to knock down vapours. Do not breathe fumes. Do not allow fire water to penetrate into surface or ground water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice.

6.2 Environmental precautions

Large amounts: Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance. Final cleaning.

Additional information:

Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Do not heat the product. Heating causes rise in pressure with risk of bursting. Provide adequate ventilation, and local exhaust as needed. Handle in accordance with good industrial hygiene and safety practice.

Precautions against fire and explosion:

Usual measures for fire prevention.



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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep containers tightly closed and at a temperature between 2 °C and 30 °C.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Protect from frost.
Suitable material: Plastic.
Store in corrosive resistant container/in container with a resistant inner liner.

Hints on joint storage: Do not store together with acids. Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

Follow use instructions.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
7681-52-9	Sodium hypochlorite	Europe: IOELV: STEL	1.5 mg/m ³ ; 0.5 ppm
		Great Britain: WEL-STEEL	1.5 mg/m ³ ; 0.5 ppm
		Ireland: 15 minutes	1.5 mg/m ³ ; 0.5 ppm

DNEL/DMEL: Information about Sodium hypochlorite:
DNEL short-term, workers, inhalative: 3.1 mg/m³
DNEL long-term, workers, inhalative: 1.55 mg/m³
DNEL long-term, consumers, inhalative: 1.55 mg/m³
DNEL long-term, consumers, oral, systemic: 0.26 mg/kg

PNEC: Information about Sodium hypochlorite:
PNEC water (freshwater): 0.21 µg/L
PNEC water (marine water): 0.042 µg/L
PNEC water (intermittent release): 0.26 µg/L

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Provide adequate ventilation.
Respiratory protection must be worn whenever the WEL levels have been exceeded.
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

Hand protection: hand protection is not required

Eye protection: Not required.

In case of handling larger quantities:
Tightly sealed goggles according to EN 166.

Body protection: Recommended: Wear suitable protective clothing.



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General protection and hygiene measures:

Avoid contact with eyes. Do not spray in the eyes. Change contaminated clothing. Do not breathe vapour/aerosol.

Wash hands before breaks and after work. When using do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid Form: Aerosol Colour: colourless
Odour:	weak like chlorine
Odour threshold:	No data available
pH value:	at 25 °C: 5.5 - 8.5
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	approx. 100 °C (1013 Pa)
Flash point/flash point range:	No data available
Evaporation rate:	No data available
Flammability:	not combustible
Explosion limits:	LEL (Lower Explosion Limit): not applicable UEL (Upper Explosive Limit): not applicable
Vapour pressure:	3.05 - 3.15 Pa
Vapour density:	No data available
Density:	at 20 °C: 1 g/mL
Water solubility:	completely miscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, dynamic:	0.001 Pa*s
Explosive properties:	Not explosive. Pressurised container: May burst if heated.
Oxidizing characteristics:	No data available

9.2 Other information

Additional information: No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Pressurised container: May burst if heated.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.



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10.4 Conditions to avoid

Protect from direct exposure to sunlight and temperatures exceeding 50 °C. Protect from frost.

10.5 Incompatible materials

Acids, oxidizing agents

10.6 Hazardous decomposition products

Fires in the immediate vicinity may cause the development of dangerous vapours. In case of fire may be liberated: Chlorine decomposition products, carbon monoxide and carbon dioxide.

Thermal decomposition: No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects: Acute toxicity (oral): Based on available data, the classification criteria are not met.
Acute toxicity (dermal): Based on available data, the classification criteria are not met.
Acute toxicity (inhalative): Lack of data.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Eye damage/irritation: Lack of data.
Sensitisation to the respiratory tract: Lack of data.
Skin sensitisation: Based on available data, the classification criteria are not met.
Germ cell mutagenicity/Genotoxicity: Lack of data.
Carcinogenicity: Lack of data.
Reproductive toxicity: Lack of data.
Effects on or via lactation: Lack of data.
Specific target organ toxicity (single exposure): Lack of data.
Specific target organ toxicity (repeated exposure): Lack of data.
Aspiration hazard: Lack of data.

Other information: With correct and proper handling/application, no cases health hazards are known.
Information about Sodium hypochlorite:
LD50 rat (oral): >5000 mg/kg
LD50 rat (dermal): >5000 mg/kg
The statement is derived from products of similar structure or composition.



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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Information about Sodium hypochlorite:
Fish toxicity:
LC50 fish: 0.01-0.1 mg/L/96h
Daphnia toxicity:
EC50, Daphnia: 0.01-0.1 mg/L/48h
Toxicity to microorganisms:
activated sludge: 0.375 mg/L

12.2 Persistence and degradability

Further details: The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

General information: Large amounts: Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 20 01 30 = Detergents other than those mentioned in 20 01 29.
Recommendation: Dispose of waste according to applicable legislation.

Contaminated packaging

Waste key number: 15 01 04 = Metallic packaging
Recommendation: Dispose of waste according to applicable legislation.
Empty carefully and completely, if possible. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:
UN 1950



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14.2 UN proper shipping name

ADR/RID, IMDG: UN 1950, AEROSOLS
IATA-DGR: UN 1950, AEROSOLS, non-flammable

14.3 Transport hazard class(es)

ADR/RID: Class 2, Code: 5A
IMDG: Class 2.2, Subrisk-
IATA-DGR: Class 2.2



14.4 Packing group

ADR/RID, IATA-DGR: not applicable
IMDG: -

14.5 Environmental hazards

Marine pollutant: no

14.6 Special precautions for user

Land transport (ADR/RID)

Warning board: ADR: UN number UN 1950
RID: Kemmler-number 20, UN number UN 1950
Hazard label: 2.2
Special provisions: 190 327 344 625
Limited quantities: 1 L
EQ: E0
Contaminated packaging - Instructions: P207 LP200
Contaminated packaging - Special provisions: PP87 RR6 L2
Special provisions for packing together: MP9
Tunnel restriction code: E

Sea transport (IMDG)

EmS: F-D, S-U
Special provisions: 63, 190, 277, 327, 344, 381, 959
Limited quantities: 1000 mL
Excepted quantities: E0
Contaminated packaging - Instructions: P207, LP200
Contaminated packaging - Provisions: PP87, L2
IBC - Instructions: -
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: -
Tank instructions - Provisions: -
Stowage and handling: SW1 SW22
Segregation: SG69
Properties and observations: -
Segregation group: none



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Air transport (IATA)

Hazard label: Non-flamm. gas
Excepted Quantity Code: E0
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft: Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo Aircraft only: Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
Special provisions: A98 A145 A167 A802
Emergency Response Guide-Code (ERG): 2L

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code: -
No data available

National regulations - EC member states

Volatile organic compounds (VOC):
0 % by weight

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment is not required.

SECTION 16: Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

H229 = Pressurised container: May burst if heated.
H314 = Causes severe skin burns and eye damage.
H400 = Very toxic to aquatic life.
EUH031 = Contact with acids liberates toxic gas.

Reason of change: Changes in section 1: Emergency phone number (Denmark)
Date of first version: 30/4/2014

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.