



# SAFETY DATA SHEET

according to SANS 10234:2008

## GROHE BLUE XTRA-CLEAN

Material number 40434001

Revision date: 2020/1/7

Version: 14

Language: en-ZA

Date of print: 2020/3/20

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### 1. Identification of the substance/mixture and of the company/undertaking

#### Product identifier

Trade name: GROHE BLUE XTRA-CLEAN

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

General use: Cleaning agent on the basis of active chlorine released from hypochlorous acid

#### 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  
Department responsible for information:  
Telephone: +49 (0)2372 93-2037  
sustainability@grohe.com

#### Emergency telephone number

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

### 2. Hazards identification

#### Classification of the substance or mixture

#### GHS classification

Aerosol 3 Pressurised container: May burst if heated.

#### Label elements

Signal word: **Warning**

Hazard statements: Pressurised container: May burst if heated.

Precautionary Statements:

Keep out of reach of children.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not pierce or burn, even after use.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

#### Other hazards

Special danger of slipping by leaking/spilling product.



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### 3. Composition / information on ingredients

#### Mixtures

Chemical characterisation: Aqueous solution on the basis of active chlorine released from hypochlorous acid

### 4. 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.

#### Most important symptoms and effects, both acute and delayed

No data available

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### 5. Firefighting measures

#### 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

#### 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.

#### Advice for firefighters

Special protective equipment for firefighters:

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

Additional information:

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.



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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

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

### Environmental precautions

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

### 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.

## 7. Handling and storage

### 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. Take off contaminated clothing and wash it before reuse.

Do not spray in the eyes. Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Usual measures for fire prevention.

### Storage

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.

## 8. Exposure controls/personal protection

### Exposure controls

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

See also information in chapter 7, section storage.

### 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



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Eye protection:	Not required. In case of handling larger quantities: Tightly sealed goggles according to EN 166.
Body protection:	Recommended: Wear suitable protective clothing.
General protection and hygiene measures:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Avoid contact with eyes. Do not spray in the eyes. Take off contaminated clothing and wash it before reuse. Do not breathe vapour/aerosol. Wash hands before breaks and after work. When using do not eat, drink or smoke. Have eye wash bottle or eye rinse ready at work place.

## 9. Physical and chemical properties

### 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
Thermal decomposition:	No data available

### Additional information

Viscosity, dynamic:	0,001 Pa*s
Explosive properties:	Not explosive. Pressurised container: May burst if heated.

## 10. Stability and reactivity

Reactivity:	Refer to 10.3
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Pressurised container: May burst if heated.



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Conditions to avoid: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Protect from frost.

Incompatible materials: Acids, oxidizing agents

Hazardous decomposition products: No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available

## 11. Toxicological information

### Information on toxicological effects

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

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.

Serious 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.

## 12. Ecological information

### Toxicity

Further details: No data available

### Persistence and degradability

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

### Mobility in soil

No data available

### Additional ecological information

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



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### 13. Disposal considerations

#### Waste treatment methods

##### Product

Recommendation: Dispose of waste according to applicable legislation.

##### Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.  
Empty carefully and completely, if possible. Non-contaminated packages may be recycled.

### 14. Transport information

#### UN number

ADR/RID, IMDG, IATA-DGR:

UN 1950

#### Sea transport (IMDG)

UN number: UN 1950  
Proper shipping name: UN 1950, AEROSOLS  
Class or division, Subsidiary risk: Class 2.2, Subrisk -  
Packing Group: -  
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: -  
Marine pollutant: no  
Segregation group: none

#### Air transport (IATA)

UN/ID number: UN 1950  
Proper shipping name: UN 1950, AEROSOLS, NON-FLAMMABLE  
Class or division, Subsidiary risk: Class 2.2  
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



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### 15. Regulatory information

#### Further regulations, limitations and legal requirements

No data available

### 16. Other information

Text for labelling: Do not spray in the eyes.  
Contains active chlorine released from hypochlorous acid: min. 0,07 g/kg.  
Registration number according to "Biozid-Meldeverordnung":  
N-79398 (PT 2,3,4,5)  
Use biocides safely. Always read the label and product information before use.

#### Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
OEL: Occupational Exposure Limit Value  
AS/NZS: Australian Standards/New Zealand Standards  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
EC: European Community  
EN: European Standard  
IATA: International Air Transport Association  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IMDG Code: International Maritime Dangerous Goods Code  
LEL: Lower Explosion Limit  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
TLV: Threshold Limit Value  
vPvB: Very persistent and very bioaccumulative  
WEL: Workplace Exposure Limit

Date of first version: 2014/4/30

#### Department issuing data sheet

Contact person: see section 1: Department responsible for information

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.