

**Safety Data Sheet**  
**according to regulation**  
**(EG) Nr. 1907/2006, (EU) Nr. 2015/830**

Date of revision: 26.01.17

Date of printing: 26.01.17

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

**1.1 Product identifier:**

Grohclean

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

**Relevant identified uses:** detergent for fittings and bathrooms.

**1.3 Details of the supplier of the safety data sheet**

**Supplier**

Grohe AG  
Industrial Park Edelburg  
D- 58675 Hemer  
Phone: 0049/2372/93-0  
Fax: 0049/2372/93-1322  
Internet: www.grohe.com  
Email: info@grohe.com  
Email safety data sheet: sidagrohe@gmail.com

**1.4 Emergency telephone number**

Giftnotruf München (poison emergency munich), 24 hours emergency number: 0049/89/19240

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

The mixture is not classified as dangerous according to regulation 1272/2008/EC.

**2.2 Label elements**

**Label elements according to Regulation 1272/2008/EC**

**Pictogram and Signal word:** not applicable.

**Hazard statements:** none.

**Precautionary statements:** none.

**Weitere Kennzeichnungselemente**

**2.3 Other hazards**

Unkonwn.

**SECTION 3: Composition /information on ingredients**

**3.2 Substances**

**Composition /information on ingredients**

Chemical name: Citric acid

CAS-No. 5949-29-1

REACH Registration No.: 01-2119457026 -42- XXXX

Quantity : 5-10%

Classification: Eye Irrit. 2 Danger note: H319

Text of the listed risk phrases refer to section 16.

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

Show this safety data sheet to the doctor in attendance. Wash off with soap and plenty of water immediately. Removing all contaminated clothes and shoes. Lay the affected person down and keep him still. If unconscious, place the person in the recovery position. Protection is needed for the first aider.

#### Following Inhalation

Move out of dangerous area. Move to fresh air. Lay the affected person down, and keep her or him warm and calm. Obtain medical attention.

#### Following skin contact

Wash contaminated skin areas thoroughly with soap and water. Remove contaminated clothing. In the case of skin irritation or allergic reactions contact a doctor.

#### Following eye contact

Rinse with plenty of water immediately, also under the eyelids, for at least 15 minutes. Remove contact lenses, if applicable.

#### Following ingestion

Clean mouth with water and drink plenty of water. Drink 1 or 2 glasses of water. Consult a doctor.

#### 4.2 Most important symptoms and delayed symptoms and effects

unknown.

#### 4.3 Indication of immediate medical attention and special treatment

In case of unconsciousness: alarm emergency physician.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable:** Use extinguishing measures that suit the environment. The product itself doesn't burn.

**Avoid:** Full water jet.

#### 5.2 Special hazards arising from the substance or mixture

#### 5.3 Advice for firefighters

It is to prevent, that fire extinguishing water or other water-diluted products gets into surface water or drinking water reservoirs.

Contaminated extinguishing water and soil must be disposed of in accordance with local regulations.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions , protective equipment and emergency procedures

Do not inhale vapors or spray mist .

Avoid skin contact with the product.

Danger of slipping on leaked product.

#### 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system . Avoid contamination of ground water through the material.

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**6.3 Methods and material for containment and cleaning**

Soak up with absorbent material (as sand, silica gel, acid binder, universal binder).  
After cleaning , flush away traces with water.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

**Measures for protection against fire and explosion**

Avoid contact with skin and eyes .  
The product is not flammable.

**Measures to prevent dusts and aerosols**

Do not spray the product

**Measures to protect the environment**

Do not use unmarked container .  
Do not empty into sewerage.  
Penetration into the soil is safe to prevent .

**General hygiene measures**

Store in original container only .

**7.2 Conditions for safe storage, including any incompatibilities**

**Information on storage conditions**

**Requirements for storage rooms and vessels**

Store in a closed original container and separate from other substances.  
Don't store below 0°C or above 25°C.

**Storage class:** not required.

**7.3 Specific end uses**

No

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

no

**8.2 Exposure controls**

Not required.

**8.2.1 Appropriate engineering controls**

Not required.

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### 8.2.2 Personal protective equipment

#### Eye / face protection

Wear goggles with side protection when risk of splashing .

#### Skin protection

##### Gloves

The choice of protective gloves should be in accordance with the actual conditions of use and the instructions of the manufacturer must be observed. The gloves should be replaced if damaged or worn away. Tested protective gloves are to wear.

The manufacturer recommends the following glove materials : rubber gloves , nitrile

##### Other skin protection :

not required

##### Respiratory Protection

not required

##### Heat / cold protection

not required

### 8.2.3 Environmental exposure controls

Do not discharge into the environment.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

appearance

- State of aggregation : liquid
- Color: colorless

Smell: mild

pH at 20 ° C: 2.5

Melting point / freezing point: n.d.

Initial boiling point and boiling range : about 100 C.

Flash point: N.A.

Evaporation rate: n.d.

Flammability ( solid, gaseous ) : N.A.

Upper / lower flammability or explosive limits : N.A.

Vapor Pressure: n.d.

Vapor Density : n.d.

Relative density : 1.03 g/cm<sup>3</sup> 20 ° C

Solubility (ies ) : Infinitely soluble in water

Partition coefficient: n.d.

n-octanol/water : n.d.

Auto-ignition temperature : N.A.

Decomposition temperature: n.d.

Viscosity: n.d.

Explosive properties : N.A.

Oxidising properties : not fire-propagating

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**9.2 Other information** no

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

When properly used, no hazardous reactions are expected.

**10.2 Chemical stability**

The product is chemically stable under normal ambient conditions (room temperature).

**10.3 Possibility of hazardous reactions**

When used properly, no hazardous reactions are expected.

**10.4 Conditions to avoid**

unknown.

**10.5 Incompatible materials**

Not with acid-sensitive materials come into contact (as marble)

**10.6 Hazardous decomposition products**

No known dangerous decomposition products .

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

There are no toxicological findings to the mixture.

**Acute toxicity**

**Skin corrosion/irritation**

Moderate skin irritation.

The classification is based on substance-specific concentration limits.

**Eye damage/irritation**

Moderate eye irritation.

The classification is based on substance-specific concentration limits.

**Sensitisation to the respiratory tract**

The mixture is not classified. The mixture does not contain any substances classified as sensitizing.

**Carcinogenicity**

The mixture is not classified. The mixture does not contain any substances classified as carcinogens.

**Reproductive toxicity**

The mixture is not classified. The mixture does not contain substances classified as toxic to reproduction.

**Aspiration hazard**

Not rated. The mixture does not contain any hydrocarbons

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**SECTION 12: Ecological information**

For the product ( mixture ) itself no data are available.  
Do not flush into surface water or sewerage system. Avoid pollution of ground water through the material.

**12.1 Toxicity**

no data available

**12.2 Persistence and degradability**

no data available

The surfactants contained in this mixture meet the conditions of biodegradability as defined in Regulation (EC) No 648/2004 for detergents.

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

not applicable

**12.6 Other adverse effects**

no data available

**SECTION 13: Disposal considerations**

**13.1 Waste Treatment Methods**

Do not dispose of more than 1 liter into the waste water.  
Dispose of in accordance with official regulations.

Municipal wastes (household waste and similar commercial, industrial and institutional wastes), including separately collected fractions ; Separately collected fractions (except 15 01 ); detergents other than those mentioned in 20 01 29

**Uncleaned packaging**

Dispose of in accordance with official regulations.

Municipal wastes (household waste and similar commercial, industrial and institutional wastes), including separately collected fractions ; Separately collected fractions (except 15 01 ); detergents other than those mentioned in 20 01 29

**Cleaned packaging**

Non-contaminated and cleaned packaging can be recycled.  
Recommended cleansing agents: water

**Waste code according to European Waste Catalogue (EWC )**

20 01 30

**special precautions**

none

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**SECTION 14: Transport information**

**14. Transport information**

No hazardous materials according to transport regulations .

**14.1 UN number Not applicable**

**14.2 Proper Shipping Name**

**ADR / RID** not

**IMDG / ICAO - TI / IATA -DGR** not

**14.3 Transport hazard class applicable**

**14.4 packing group**

III (substances with low risk )

**14.5 environmental hazards**

**Features environmentally hazardous substances**

ADR / RID / IMDG / ICAO - TI / IATA -DGR : yes / no

Marine Pollutant : yes / no

**14.6 Special precautions for user**

see sections 6-8

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Dispatch is carried out exclusively in packagings approved and approved by law.

**SECTION 15: Regulatory information**

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

**EU regulations**

**Regulation (EC) No 1005/2009 (substances which deplete the ozone layer):**

Not applicable

**Regulation (EC) No 850/2004 (Persistent organic pollutants):**

Not applicable

**Regulation (EC) No 649/2012 (Export and import of dangerous chemicals):**

Not applicable

**Regulation (EC) No 648/2004 (Detergents regulation):**

The product complies with the criteria laid down in regulation (EC) No 648/2004.

**Authorizations pursuant to Title VII of Regulation (EC) No 1907/2006:** No

**National regulations**

**Water hazard class:** 1 (slightly hazardous to water), VwVwS

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### 15.2 Chemical safety assessment:

For this substance a chemical safety assessment is not required.

## SECTION 16: Other information

### 16.1 Indication of changes

Changes since the last version

Last Updated: 20.12.16

Sections/subsections : 7.2

### 16.2 Abbreviations and acronyms

N.A. = not applicable

n.d. = not determined

#### Legend of abbreviations and acronyms used in this document:

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

BImSchV Regulation for the implementation of the Federal Immission Control Act

CAS Chemical Abstracts Service

DIN standard of the German Institute for Standardization

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 for the transport of hazardous chemicals as bulk material

ICAO-TI International Civil Aviation Organization-Technical Instructions

IMDG Code International Maritime Code for Dangerous Goods

ISO standard of International Standards Organization

IUCLID International Uniform Chemical Information Database

LC Letale concentration

LD Letale dose

Log Kow Distribution coefficient between octanol and water

MARPOL Maritime Pollution Convention = Convention for the prevention of marine pollution

OECD Organization for Economic Co-operation and Development

PBT Persistent, biocumulative, toxic

RID Regulations for the International Rail Transport of Dangerous Goods

TRGS Technical Rules for Hazardous Substances

UN United Nations (United Nations)

VOC Volatile Organic Compounds (volatile organic compounds)

VPvB very persistent and very bioaccumulative

VwVwS Administrative instructions for water polluting substances

WGK Water hazard class

### 16.3 Key literature references and sources for data

REACH Regulation (EC) No 1907/2006, (EU) 2015/830

CLP Regulation (EC) No 1272/2008

### 16.4 Classification for mixtures and used evaluation method according to regulation

**(EC) 1207/2008:** Physical hazards: Evaluation of test data

Health and environmental hazards: Calculation procedures

### 16.5 Relevant R-, H- and EUH-phrases

Eye Irrit. 2 Irritating to eyes kategorie 2

H319 Causes severe eye irritation.



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**16.6 Training advice**

**16.7 Further information**

The information is based on our present knowledge, however it does not give assurances of product properties and establishes no contract legal rights.

The product is to be used exclusively for the specified purpose mentioned in the technical data sheet or to use application mentioned in the processing instructions. Existing laws and regulations must be observed by the recipient of our products at his own responsibility.