



SAFETY DATA SHEET

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

Revision date: 22/3/2018
Version: 4
Language: en-GB,IE
Date of print: 14/4/2020

Grohe Fresh 2 in 1

Material number 38882000

Page: 1 of 11

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

1.1 Product identifier

Trade name: Grohe Fresh 2 in 1

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

General use: toilet rim cleaners

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

1.4 Emergency telephone number

GLZ-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)

Skin Irrit. 2; H315 Causes skin irritation.
Eye Irrit. 2; H319 Causes serious eye irritation.
Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.
Additional information Eye irritation: Classification by test result, HET-CAM-Test

2.2 Label elements

Labelling (CLP)



Signal word:

Warning

Hazard statements: H315 Causes skin irritation.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.



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Grohe Fresh 2 in 1

Material number 38882000

Page: 2 of 11

Precautionary Statements:

- P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P262 Do not get in eyes, on skin, or on clothing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

Special labelling

EUH208 Contains Hydrocarbons, terpene processing by-products. May produce an allergic reaction.

Text for labelling:

Labelling for contents according to regulation (EC) No 648/2004, annex VII:
15-30%: anionic surfactants, non-ionic surfactants
<5%: oxygen-based bleaching agents
Contains perfumes, Limonene, Linalool

2.3 Other hazards

Forms slippery surfaces with water.

Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119490225-39-xxxx EC No. 273-257-1 CAS 68955-19-1	Sulfuric acid, mono-C12-18- alkyl esters, sodium salts	15 - 25 %	Skin Irrit. 2; H315. Eye Dam. 1; H318. Aquatic Chronic 3; H412.
REACH 01-2119489413-33-xxxx EC No. 931-338-5 CAS 90622-77-8	Fatty acid amide	10 - 20 %	Skin Irrit. 2; H315. Eye Dam. 1; H318. Aquatic Chronic 2; H411.
REACH 01-2119488633-28-xxxx EC No. 226-218-8 CAS 5329-14-6	Sulphamidic acid	10 - 20 %	Skin Irrit. 2; H315. Eye Irrit. 2; H319. Aquatic Chronic 3; H412.
REACH 01-2119485498-19-xxxx EC No. 207-838-8 CAS 497-19-8	Sodium carbonate	1 - 5 %	Eye Irrit. 2; H319.
EC No. 273-309-3 CAS 68956-56-9	Hydrocarbons, terpene processing by-products	< 1 %	Flam. Liq. 3; H226. Skin Irrit. 2; H315. Eye Irrit. 2; H319. Skin Sens. 1; H317. Asp. Tox. 1; H304. Aquatic Chronic 2; H411.

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



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Revision date: 22/3/2018

Version: 4

Language: en-GB,IE

Date of print: 14/4/2020

Grohe Fresh 2 in 1

Material number 38882000

Page: 3 of 11

Additional information: Labelling for contents according to regulation (EC) No 648/2004, annex VII:
15-30%: anionic surfactants, non-ionic surfactants
<5%: oxygen-based bleaching agents
Contains perfumes, Limonene, Linalool

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: If medical advice is needed, have product container or label at hand.

In case of inhalation: Provide fresh air. If you feel unwell, seek medical advice.

Following skin contact: After contact with skin, wash immediately with plenty of water. Take off contaminated clothing and wash it before reuse.
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. Subsequently consult an ophthalmologist.

After swallowing: Rinse mouth with water. Drink large quantities of water.
Do not induce vomiting. Never give anything by mouth to an unconscious person.
Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation. Causes serious eye irritation.
May cause allergic reactions in already sensitized persons.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

May form dangerous gases and vapours in case of fire.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Hazchem-Code: -

Use water spray jet to knock down vapours.

Do not allow fire water to penetrate into surface or ground water.



SAFETY DATA SHEET

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Revision date: 22/3/2018
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Date of print: 14/4/2020

Grohe Fresh 2 in 1

Material number 38882000

Page: 4 of 11

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear appropriate protective equipment.
Avoid generation of dust. Do not breathe dust.
Avoid contact with skin and eyes.
Do not remove water-soluble protective foil.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

6.3 Methods and material for containment and cleaning up

Collect dry and place in appropriate containers for disposal. Subsequent cleaning.
To clean the floor and all object contaminated by this material, use water.

Additional information: Forms slippery surfaces with water.

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: Provide adequate ventilation, and local exhaust as needed.
Wear appropriate protective equipment. Avoid contact with skin and eyes.
Avoid generation of dust. Do not breathe dust.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Take off contaminated clothing and wash it before reuse.
Do not remove water-soluble protective foil.
Have eye wash bottle or eye rinse ready at work place.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:
Keep container tightly closed and dry. Keep only in the original container.
Hints on joint storage: Keep away from food, drink and animal feedingstuffs.
Do not store with strong oxidizing agents.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Additional information: Contains no substances with occupational exposure limit values.



SAFETY DATA SHEET

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

Revision date: 22/3/2018
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Language: en-GB,IE
Date of print: 14/4/2020

Grohe Fresh 2 in 1

Material number 38882000

Page: 5 of 11

DNEL/DMEL: Information about Sulfuric acid, mono-C12-18-alkyl esters, sodium salts (CAS No. 68955-19-1):
DNEL workers, systemic, long-term, inhalative: 285 mg/m³
DNEL workers, systemic, long-term, dermal: 4060 mg/kg bw/d
DNEL consumers, systemic, long-term, inhalative: 85 mg/m³
DNEL consumers, systemic, long-term, dermal: 2440 mg/kg bw/d
DNEL consumers, systemic, long-term, oral: 24 mg/kg bw/d
Information about fatty acid amide (CAS No. 90622-77-8):
DNEL workers, systemic, long-term, inhalative: 73.4 mg/m³
DNEL workers, systemic, long-term, dermal: 4.16 mg/kg bw/d
DNEL workers, local, long-term, dermal: 93.6 µg/cm²
DNEL consumers, systemic, long-term, inhalative: 21.73 mg/m³
DNEL consumers, systemic, long-term, dermal: 2.5 mg/kg bw/d
DNEL consumers, local, long-term, dermal: 56.2 µg/cm²
DNEL consumers, systemic, long-term, oral: 6.25 mg/kg bw/d
Information about Sulphamidic acid (CAS No. 5329-14-6):
DNEL workers, systemic, long-term, dermal: 10 mg/kg bw/d
DNEL consumers, systemic, long-term, dermal: 5 mg/kg bw/d
DNEL consumers, systemic, long-term, oral: 5 mg/kg bw/d

PNEC: Information about Sulfuric acid, mono-C12-18-alkyl esters, sodium salts (CAS No. 68955-19-1):
PNEC Water (freshwater): 0.098 mg/L
PNEC Water (marine water): 0.0098 mg/L
PNEC Water (intermittent release): 0.013 µg/L
PNEC sewage treatment plant: 6.8 mg/L
PNEC sediment (freshwater): 3.45 mg/kg dw
PNEC sediment (marine water): 0.345 mg/kg dw
PNEC soil: 0.631 mg/kg dw
Information about fatty acid amide (CAS No. 90622-77-8):
PNEC Water (freshwater): 0.007 mg/L
PNEC Water (marine water): 0.0007 mg/L
PNEC Water (intermittent release): 30 µg/L
PNEC sewage treatment plant: 830 mg/L
PNEC sediment (freshwater): 1.201 mg/kg dw
PNEC sediment (marine water): 0.12 mg/kg dw
Information about Sulphamidic acid (CAS No. 5329-14-6):
PNEC Water (freshwater): 0.048 mg/L
PNEC water (marine water): 0.0048 mg/L
PNEC water (intermittent release): 0.48 mg/L
PNEC sewage treatment plant: 2 mg/L
PNEC sediment (freshwater): 0.173 mg/kg dw
PNEC sediment (marine water): 0.0173 mg/kg dw
PNEC soil: 0.00638 mg/kg dw

8.2 Exposure controls

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

Personal protection equipment

Occupational exposure controls

Respiratory protection: In case of dust formation: Particulates filter P1 according to EN 143.



SAFETY DATA SHEET

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

Revision date: 22/3/2018
Version: 4
Language: en-GB,IE
Date of print: 14/4/2020

Grohe Fresh 2 in 1

Material number 38882000

Page: 6 of 11

Hand protection: Recommendation: Protective gloves according to EN 374
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Recommendation: Wear suitable protective clothing.

General protection and hygiene measures:
Avoid contact with skin and eyes. When using do not eat or drink. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product.
Wash hands before breaks and after work. Have eye wash bottle or eye rinse ready at work place. Do not remove water-soluble protective foil.

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: solid
Colour: blue

Odour: fresh
Odour threshold: No data available

pH value: 7.5 (Component blue)
2.5 (Descaler)

Melting point/freezing point: No data available
Initial boiling point and boiling range: No data available
Flash point/flash point range: Not applicable
Evaporation rate: No data available
Flammability: No data available
Explosion limits: No data available
Vapour pressure: No data available
Vapour density: No data available
Density: No data available
Water solubility: soluble
Partition coefficient: n-octanol/water: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity, kinematic: No data available
Explosive properties: No data available
Oxidizing characteristics: not oxidising

9.2 Other information

Additional information: No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

refer to 10.3

10.2 Chemical stability

Stable under recommended storage conditions.



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Grohe Fresh 2 in 1

Material number 38882000

Revision date: 22/3/2018

Version: 4

Language: en-GB,IE

Date of print: 14/4/2020

Page: 7 of 11

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Humidity

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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.
ATEmix calculated: > 5000 mg/kg
Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix calculated: > 2000 mg/kg
Acute toxicity (inhalative): Lack of data.
Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.
Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation. test result HET-CAM-Test
Sensitisation to the respiratory tract: Lack of data.
Skin sensitisation: Lack of data.
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: Information about Sulfuric acid, mono-C12-18-alkyl esters, sodium salts (CAS No. 68955-19-1):
LD50 Rat, oral: 4010 mg/kg
LD50 Rat, dermal: >2000 mg/kg (OECD 402, read across)
Information about fatty acid amide (CAS No. 90622-77-8):
LD50 Rat, oral: >2000 mg/kg (OECD 401, read across)
LD50 Rabbit, dermal: >2000 mg/kg (read across)
Information about Sulphamidic acid (CAS No. 5329-14-6):
LD50 Rat, dermal: >2000 mg/kg (OECD 402)
Information about Sodium carbonate (CAS No. 497-19-8):
LD50 Rat, oral: 4090 mg/kg



SAFETY DATA SHEET

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

Revision date: 22/3/2018
Version: 4
Language: en-GB,IE
Date of print: 14/4/2020

Grohe Fresh 2 in 1

Material number 38882000

Page: 8 of 11

Symptoms

In case of ingestion:
Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract. Stomachache, vomiting
After contact with skin: Irritation, redness
After eye contact:
Eye contact may cause irritation, redness, tearing or blurry vision. Pain, irreversible damage to optic nerve

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.
Information about Sulfuric acid, mono-C12-18-alkyl esters, sodium salts (CAS No. 68955-19-1):
Fish toxicity: LC50 Brachydanio rerio (zebra-fish): 1.3 mg/L/96h (OECD 203)
Daphnia toxicity: EC50 Daphnia magna (Big water flea): 2.8 mg/L/48h (OECD 202)
Algae toxicity: EbC50 Scenedesmus subspicatus: 20 mg/L/72h
Information about fatty acid amide (CAS No. 90622-77-8):
Fish toxicity: LC50 Brachydanio rerio (zebra-fish): 31 mg/L/96h (OECD 203)
Daphnia toxicity: EC50 Daphnia magna (Big water flea): 37.5 mg/L/24h (OECD 202)
Algae toxicity: EbC50 Scenedesmus subspicatus: 1.1 mg/L/72h (OECD 201)
Information about Sulphamidic acid (CAS No. 5329-14-6):
Fish toxicity: LC50 Pimephales promelas (fathead minnow): 70.3 mg/L/96h (OECD 203)
Daphnia toxicity: EC50 Daphnia magna (Big water flea): 71.6 mg/L/48h (OECD 202)
Algae toxicity: EC50 Desmodesmus subspicatus (green algae): 48 mg/L/72h (OECD 201)

12.2 Persistence and degradability

Further details: The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

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: Do not allow to penetrate into soil, waterbodies or drains.



SAFETY DATA SHEET

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Revision date: 22/3/2018
Version: 4
Language: en-GB,IE
Date of print: 14/4/2020

Grohe Fresh 2 in 1

Material number 38882000

Page: 9 of 11

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 20 01 29* = municipal wastes: Detergents containing hazardous substances
* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.
Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number

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

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:
Not restricted

14.3 Transport hazard class(es)

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

14.4 Packing group

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

14.5 Environmental hazards

Marine pollutant: no

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

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



SAFETY DATA SHEET

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

Revision date: 22/3/2018
Version: 4
Language: en-GB,IE
Date of print: 14/4/2020

Grohe Fresh 2 in 1

Material number 38882000

Page: 10 of 11

National regulations - EC member states

Labelling of packaging with <= 125mL content



Signal word:

Warning

Hazard statements:

H412

Harmful to aquatic life with long lasting effects.

Precautionary Statements:

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P262

Do not get in eyes, on skin, or on clothing.

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Further information

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

H226 = Flammable liquid and vapour.

H304 = May be fatal if swallowed and enters airways.

H315 = Causes skin irritation.

H317 = May cause an allergic skin reaction.

H318 = Causes serious eye damage.

H319 = Causes serious eye irritation.

H411 = Toxic to aquatic life with long lasting effects.

H412 = Harmful to aquatic life with long lasting effects.

EUH208 = Contains Hydrocarbons, terpene processing by-products. May produce an allergic reaction.



SAFETY DATA SHEET

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Revision date: 22/3/2018

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Date of print: 14/4/2020

Grohe Fresh 2 in 1

Material number 38882000

Page: 11 of 11

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
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
EC50: Effective Concentration 50%
EC: European Community
EN: European Standard
EU: European Union
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
LC50: Median lethal concentration
LD50: Lethal dose 50%
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
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
vPvB: Very persistent and very bioaccumulative

Reason of change: Changes in section 1: Trade name
Changes in section 2: Labelling
Changes in section 3: Composition / information on ingredients
General revision

Date of first version: 2/7/2015

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.