



SAFETY DATA SHEET

Grohe Fresh 2 in 1

Material number 38882000

Revision date: 3/22/2018

Version: 4

Language: en-UN

Date of print: 3/20/2020

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

Product identifier

Trade name: Grohe Fresh 2 in 1

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

General use: toilet rim cleaners

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

Skin Irritation 2 Causes skin irritation.

Eye Irritation 2A Causes serious eye irritation.

Aquatic toxicity - chronic 3 Harmful to aquatic life with long lasting effects.

Additional information Eye irritation: Classification by test result, HET-CAM-Test

Label elements



Signal word:

Warning

Hazard statements:

Causes skin irritation.
Causes serious eye irritation.
Harmful to aquatic life with long lasting effects.



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Precautionary Statements:

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.

Do not get in eyes, on skin, or on clothing.
Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of water/soap.

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

Specific treatment (see 'First aid' on this label).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Other hazards

Forms slippery surfaces with water.

3. Composition / information on ingredients

Mixtures

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 68955-19-1	Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	15 - 25 %	Skin Irritation 2. Eye Damage 1. Aquatic toxicity - chronic 3.
CAS 90622-77-8	Fatty acid amide	10 - 20 %	Skin Irritation 2. Eye Damage 1. Aquatic toxicity - chronic 2.
CAS 5329-14-6	Sulphamidic acid	10 - 20 %	Skin Irritation 2. Eye Irritation 2A. Aquatic toxicity - chronic 3.
CAS 497-19-8	Sodium carbonate	1 - 5 %	Eye Irritation 2A.
CAS 68956-56-9	Hydrocarbons, terpene processing by-products	< 1 %	Flammable Liquid 3. Skin Irritation 2. Eye Irritation 2A. Sensitization - skin 1. Aspiration Toxicity 1. Aquatic toxicity - chronic 2.

Additional information: Labeling 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

4. 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.



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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.

Most important symptoms and effects, both acute and delayed

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

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.

Extinguishing media which must not be used for safety reasons:

Full water jet

Special hazards arising from the substance or mixture

May form dangerous gases and vapors in case of fire.

Advice for firefighters

Special protective equipment for firefighters:

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

Additional information:

Use a water fog to control vapors.

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

6. Accidental release measures

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.

Environmental precautions

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

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.



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7. Handling and storage

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.

Storage

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.

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: In case of dust formation: Particulates filter P1 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

Hand protection: Recommendation: Protective gloves according to OSHA Standard - 29 CFR: 1910.138
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

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.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance: Physical state at 20 °C and 101.3 kPa: solid
Color: blue

Odour: fresh

Odour threshold: No data available

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



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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
Thermal decomposition:	No data available

Additional information

Viscosity	-
Oxidizing characteristics:	not oxidising

10. Stability and reactivity

Reactivity:	No data available
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No hazardous reaction when handled and stored according to provisions.
Conditions to avoid:	Humidity
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	No hazardous decomposition products known.
Thermal decomposition:	No data available



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11. Toxicological information

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 Irritation 2 = Causes skin irritation.
Serious eye damage/irritation: Eye Irritation 2A = 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

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



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12. Ecological information

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)

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.

Mobility in soil

No data available

Additional ecological information

General information:

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

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.
Non-contaminated packages may be recycled.

14. Transport information

UN number

ADR/RID, IMDG, IATA-DGR:

not applicable

Land transport (ADR/RID)

Product designation:

Not restricted



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Sea transport (IMDG)

Proper shipping name: Not restricted
Marine pollutant: no

Air transport (IATA)

Proper shipping name: Not restricted

Further information

No dangerous good in sense of these transport regulations.

15. Regulatory information

Further regulations, limitations and legal requirements

No data available

16. Other information

Text for labelling: Labeling 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

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
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
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
vPvB: Very persistent and very bioaccumulative



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

Date of first version: 7/2/2015

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.