



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

## Grohe Fresh 2 in 1

Material number 38882000

Revision date: 15/12/2022

Version: 6.0

Replaces version: 5.1

Language: en-IE

Date of print: 2/1/2023

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

### 1.1 Product identifier

Trade name: Grohe Fresh 2 in 1

UFI: 72T0-Y0CH-A00W-Y8SF

### 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: DE-58675 Hemer

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

Additional information:

Corporate headquarters:

Grohe AG

Feldmühleplatz 15

40545 Düsseldorf

Telephone: +49 (0)211 9130 3000

### 1.4 Emergency telephone number

Poisons Information Centre of Ireland

Telephone: 01 809 2566

## 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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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

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, 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:

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

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

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



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### 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.  
Furthermore, there may develop:

#### 5.3 Advice for firefighters

Special protective equipment for firefighters:

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

Additional information:

Use water spray jet to knock down vapours.  
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

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.



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### 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.

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/m<sup>3</sup>

DNEL workers, systemic, long-term, dermal: 4060 mg/kg bw/d

DNEL consumers, systemic, long-term, inhalative: 85 mg/m<sup>3</sup>

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/m<sup>3</sup>

DNEL workers, systemic, long-term, dermal: 4.16 mg/kg bw/d

DNEL workers, local, long-term, dermal: 93.6 µg/cm<sup>2</sup>

DNEL consumers, systemic, long-term, inhalative: 21.73 mg/m<sup>3</sup>

DNEL consumers, systemic, long-term, dermal: 2.5 mg/kg bw/d

DNEL consumers, local, long-term, dermal: 56.2 µg/cm<sup>2</sup>

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



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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.

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.

## Environmental exposure controls

Refer to "6.2 Environmental precautions".

# SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	solid
Colour:	blue
Odour:	fresh
Odour threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flammability:	No data available
Upper/lower flammability or explosive limits:	No data available
Flash point/flash point range:	Not applicable



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Decomposition temperature:	No data available
pH:	7.5 (Component blue) 2.5 (Descaler)
Viscosity, kinematic:	No data available
Water solubility:	soluble
Partition coefficient: n-octanol/water:	No data available
Vapour pressure:	No data available
Density:	No data available
Vapour density:	No data available
Particle characteristics:	No data available

### 9.2 Other information

Explosive properties:	No data available
Oxidizing characteristics:	not oxidising
Auto-ignition temperature:	No data available
Evaporation rate:	No data available
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.

### 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



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### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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.

#### 11.2 Information on other hazards

Endocrine disrupting properties: No data available

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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## 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 Danio rerio (zebrafish): 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 Danio rerio (zebrafish): 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 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

General information:

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

## 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.

#### Package

Recommendation:

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

## SECTION 14: Transport information

### 14.1 UN number or ID number

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





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### 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

Dangerous for the environment: Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant: no

### 14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

No data available

## SECTION 15: Regulatory information

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

#### National regulations - EC member states

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 75

### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

## SECTION 16: Other 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.

Reason of change: Changes in section 1: Address

General revision

Changes in section 1: Poisons information service

Date of first version: 2/7/2015

Department issuing data sheet: see section 1: Department responsible for information



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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  
Aquatic Chronic: Hazardous to the aquatic environment - chronic  
AS/NZS: Australian Standards/New Zealand Standards  
Asp. Tox.: Aspiration toxicity  
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  
EC50: Effective Concentration 50%  
EN: European Standard  
EQ: Excepted quantities  
EU: European Union  
Eye Dam.: Eye damage  
Eye Irrit.: Eye irritation  
Flam. Liq.: Flammable liquid  
IATA: International Air Transport Association  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
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  
Skin Irrit.: Skin irritation  
Skin Sens.: Skin sensitisation  
TRGS: Technical Rules for Hazardous Substances  
vPvB: Very persistent and very bioaccumulative

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.