



# SAFETY DATA SHEET

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

Revision date: 8/10/2021  
Version: 9.0  
Language: en-GB,IE  
Date of print: 20/1/2022

## Decalcifier GROHE Sensia® IGS

Material number 491530045

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

#### 1.1 Product identifier

Trade name: Decalcifier GROHE Sensia® IGS

UFI: 7UT0-H0K3-300C-XC11

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

General use: DESCALERS

#### 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

#### 1.4 Emergency telephone number

GIZ-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)

Met. Corr. 1; H290 May be corrosive to metals.  
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.

#### 2.2 Label elements

##### Labelling (CLP)



Signal word: **Warning**

Hazard statements: H290 May be corrosive to metals.  
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.  
P234 Keep only in original packaging.  
P264 Wash hands and face thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 IF exposed or concerned: Get medical advice/attention.

### Special labelling

Text for labelling: Labelling for contents according to regulation (EC) No 648/2004, annex VII:  
Contains less than 5%: phosphates, phosphonates

### 2.3 Other hazards

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.  
Contains phosphonates. May contribute to the eutrophication of water supplies. May form explosible dust-air mixture if dispersed.

Results of PBT and vPvB assessment:

No data available

## SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Chemical characterisation: Sulphamidic acid mixture

Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119488633-28-xxxx EC No. 226-218-8 CAS 5329-14-6	Sulphamidic acid	>= 75 %	Skin Irrit. 2; H315. Eye Irrit. 2; H319. Aquatic Chronic 3; H412.
EC No. 207-838-8 CAS 497-19-8	Sodium carbonate	1 - 5 %	Eye Irrit. 2; H319.

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

Additional information: Labelling for contents according to regulation (EC) No 648/2004, annex VII:  
Contains less than 5%: phosphates, phosphonates

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing.  
In case of respiratory difficulties seek medical attention. If victim is at risk of losing consciousness, position and transport on their side.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water.  
Change contaminated clothing. In case of skin irritation, consult a physician.



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After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.

Remove contact lenses. Subsequently consult an ophthalmologist.

After swallowing: Drink large quantities of water. Do not induce vomiting. Seek medical attention.

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

Causes skin irritation. Causes serious eye irritation.

### 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:

Extinguishing powder, carbon dioxide, water spray jet, alcohol resistant foam.

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: Sulphur oxides, nitrogen oxides (NO<sub>x</sub>), ammonia.

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

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

Additional information:

Hazchem-Code: 2X

Knock down dust with water spray jet.

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

## SECTION 6: Accidental release measures

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

Provide adequate ventilation. Avoid contact with the substance.

Avoid generation of dust. Do not breathe dust.

Wear appropriate protective equipment. Change contaminated clothing.

### 6.2 Environmental precautions

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

If necessary notify appropriate authorities.

### 6.3 Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Final cleaning.

Larger quantities to be stemmed and pumped into tanks.

### 6.4 Reference to other sections

Refer additionally to section 8 and 13.



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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advices on safe handling: Handle in accordance with good industrial hygiene and safety practice.  
When diluting, always add the product to water. Never add water to the product.  
Avoid generation of dust. Do not breathe dust. Avoid contact with skin and eyes.  
Provide adequate ventilation, and local exhaust as needed.  
Wear appropriate protective equipment.

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

Requirements for storerooms and containers:  
Keep only in the original container. Keep container tightly closed and dry.  
Provide acid resistant flooring.

Hints on joint storage: Not let come into contact with light metals.  
Do not store together with strong bases or 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 Sulphamidic acid:  
DNEL Long-term systemic, workers, dermal: 10 mg/kg bw/d  
DNEL Long-term systemic, consumers, dermal: 5 mg/kg bw/d  
DNEL Long-term systemic, consumers, oral: 5 mg/kg bw/d

PNEC: Information about Sulphamidic acid:  
PNEC water (freshwater): 0.048 mg/L  
PNEC water (marine water): 0.0048 mg/L  
PNEC water (intermittent release): 0.48 mg/L  
PNEC sediment (freshwater): 0.173 mg/kg dwt  
PNEC sediment (marine water): 0.0173 mg/kg dwt  
PNEC soil: 0.00638 mg/kg dwt  
PNEC sewage treatment plant: > 200 mg/L

#### 8.2 Exposure controls

Dust should be exhausted directly at the point of origin.  
Provide for good ventilation or exhaust system or work with completely self-contained equipment.

#### Personal protection equipment

##### Occupational exposure controls

Respiratory protection: In case of dust formation: Particulates filter P2 according to EN 143.

Hand protection: Protective gloves according to EN 374.  
Glove material: Nitrile rubber - Layer thickness: 0.11 mm  
Breakthrough time: > 480 min  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.



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Eye protection: Tightly sealed goggles according to EN 166.  
Body protection: Wear suitable protective clothing.  
General protection and hygiene measures:  
Do not breathe dust. Do not get in eyes, on skin, or on clothing.  
Do not eat, drink or smoke when using this product.  
Wash hands thoroughly after handling.  
Have eye wash bottle or eye rinse ready at work place. Change contaminated clothing.

### Environmental exposure controls

Refer to "6.2 Environmental precautions".

## 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  
Form: granulate  
Colour: white  
Odour: odourless  
Odour threshold: No data available  
pH: Not applicable  
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: approx. 2.1 g/cm<sup>3</sup>  
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

May be corrosive to metals. May form explosible dust-air mixture if dispersed.



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### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

The product develops hydrogen in an aqueous solution in contact with metals.

### 10.4 Conditions to avoid

Keep away from heat.

### 10.5 Incompatible materials

Strong bases, oxidizing agents, amines, sulfides, cyanides, carbonates.

### 10.6 Hazardous decomposition products

No dangerous reactions with proper and specified storage and handling

Thermal decomposition: No data available

## SECTION 11: Toxicological information

### 11.1 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): Lack of data.

Acute toxicity (dermal): Lack of data.

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.

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 Sulphamidic acid:

LD50 Rat, oral: 3,160 mg/kg

LD50 Rat, dermal: > 2,000 mg/kg

### Symptoms

In case of inhalation: Irritating to respiratory system. Cough, shortage of breath.

In case of ingestion:

Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

After contact with skin:

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.



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### SECTION 12: Ecological information

#### 12.1 Toxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects. Harmful effects on water organisms by modification of pH-value.  
Contains phosphonates. May contribute to the eutrophication of water supplies.  
Information about Sulphamidic acid:  
Bacterial toxicity:  
EC10 *Pseudomonas putida*:  $\geq 1000$  mg/L/16h.  
Algae toxicity:  
EC50 *Desmodesmus subspicatus* (green algae): 48 mg/L/72h.  
Daphnia toxicity:  
EC50 *Daphnia magna* (Big water flea): 48 mg/L/72h.  
Fish toxicity:  
LC50 *Pimephales promelas* (fathead minnow): 70.3 mg/L/96h.

#### 12.2 Persistence and degradability

Further details: Hydrolysis: formation of Ammonium hydrogensulphate.  
Effects in sewage plants: Before discharge into sewage plants the product normally needs to be neutralised.

#### 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 enter into ground-water, surface water or drains.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product

Waste key number: 06 01 06\* = Other acids  
\* = Evidence for disposal must be provided.  
Recommendation: Dispose of waste according to applicable legislation.

##### Package

Waste key number: 15 01 02 = Plastic packaging  
Recommendation: Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled.



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### SECTION 14: Transport information

#### 14.1 UN number

ADR/RID, IMDG, IATA-DGR:

UN 2967

#### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

UN 2967, SULPHAMIC ACID mixture

#### 14.3 Transport hazard class(es)

ADR/RID:

Class 8, Code: C2

IMDG:

Class 8, Subrisk -

IATA-DGR:

Class 8



#### 14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

III

#### 14.5 Environmental hazards

Marine pollutant:

no

#### 14.6 Special precautions for user

##### Land transport (ADR/RID)

Warning board:

ADR/RID: Kemmler-number 80, UN number UN 2967

Hazard label:

8

Limited quantities:

5 kg

EQ:

E1

Package - Instructions:

P002 IBC08 LP02 R001

Package - Special provisions:

B3

Special provisions for packing together:

MP10

Portable tanks - Instructions:

T1

Portable tanks - Special provisions:

TP33

Tank coding:

SGAV

Tunnel restriction code:

E





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### Sea transport (IMDG)

EmS:	F-A, S-B
Special provisions:	-
Limited quantities:	5 kg
Excepted quantities:	E1
Package - Instructions:	P002, LP02
Package - Provisions:	-
IBC - Instructions:	IBC08
IBC - Provisions:	B3
Tank instructions - IMO:	-
Tank instructions - UN:	T1
Tank instructions - Provisions:	TP33
Stowage and handling:	Category A.
Segregation:	SG36 SG49
Properties and observations:	White crystalline powder. Soluble in water. Decomposes when heated, evolving toxic fumes. Causes burns to skin, eyes and mucous membranes.
Segregation group:	1

### Air transport (IATA)

Hazard label:	Corrosive
Excepted Quantity Code:	E1
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y845 - Max. Net Qty/Pkg. 5 kg
Passenger and Cargo Aircraft:	Pack.Instr. 860 - Max. Net Qty/Pkg. 25 kg
Cargo Aircraft only:	Pack.Instr. 864 - Max. Net Qty/Pkg. 100 kg
Special provisions:	A803
Emergency Response Guide-Code (ERG):	8L

### 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: 2X  
No data available

#### 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.  
P308+P313 IF exposed or concerned: Get medical advice/attention.

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.



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### SECTION 16: Other information

#### Further information

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

- H290 = May be corrosive to metals.
- H315 = Causes skin irritation.
- H319 = Causes serious eye irritation.
- H412 = Harmful to aquatic life with long lasting effects.

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
- UN: United Nations
- vPvB: Very persistent and very bioaccumulative

Reason of change: General revision

Date of first version: 10/12/2013

#### 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.