



SAFETY DATA SHEET

Decalcifier GROHE Sensia® IGS

Material number 491530045

Revision date: 15.12.2022
Version: 10.0
Replaces version: 9.0
Language: en-UN
Date of print: 2.1.2023
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1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name: Decalcifier GROHE Sensia® IGS

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

General use: DESCALERS

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

Emergency telephone number

GIZ-Nord, Göttingen, Germany,
Telephone: +49 551-19240

2. Hazards identification

Classification of the substance or mixture

GHS classification

Corrosive to Metals 1 May be corrosive to metals.
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.

Label elements



Signal word:

Warning

Hazard statements:

May be corrosive to metals.
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.

Keep only in original container.
Wash hands and face thoroughly after handling.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.

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.

3. Composition/information on ingredients

Mixtures

Chemical characterisation: Sulphamidic acid mixture

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 5329-14-6	Sulphamidic acid	>= 75 %	Skin Irritation 2. Eye Irritation 2A. Aquatic toxicity - chronic 3.
CAS 497-19-8	Sodium carbonate	1 - 5 %	Eye Irritation 2A.

4. 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.

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.

Most important symptoms and effects, both acute and delayed

Causes skin irritation. Causes serious eye irritation.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Firefighting measures

Extinguishing media

Suitable extinguishing media: Dry chemical powder, carbon dioxide, water spray jet, alcohol resistant foam.

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.
Furthermore, there may develop: Sulphur oxides, nitrogen oxides (NOx), ammonia.



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Advice for firefighters

Special protective equipment for firefighters:

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

Additional information:

Knock down dust with water spray jet.

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

6. Accidental release measures

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.

Environmental precautions

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

If necessary notify appropriate authorities.

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.

7. Handling and storage

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.

Storage

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.

8. Exposure controls/personal protection

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.

See also information in chapter 7, section storage.

Personal protection equipment

Occupational exposure controls

Respiratory protection:

In case of dust formation: Particulates filter P2 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

Hand protection:

Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Glove material: Nitrile rubber - Layer thickness: 0,11 mm

Breakthrough time: > 480 min

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:

Wear suitable protective clothing.



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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.: Section "Environmental precautions".

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: solid Form: granulate Color: white
Odour:	odorless
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 ³
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:	No data available
Oxidizing characteristics:	not oxidising

10. Stability and reactivity

Reactivity:	May be corrosive to metals. May form explosible dust-air mixture if dispersed.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	The product develops hydrogen in an aqueous solution in contact with metals.
Conditions to avoid:	Keep away from heat.
Incompatible materials:	Strong bases, oxidizing agents, amines, sulfides, cyanides, carbonates.
Hazardous decomposition products:	No dangerous reactions with proper and specified storage and handling
Thermal decomposition:	No data available



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11. Toxicological information

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

12. Ecological information

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*: ≥ 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.

Effects in sewage plants: Before discharge into sewage plants the product normally needs to be neutralised.

Persistence and degradability

Further details: Hydrolysis: formation of Ammonium hydrogensulphate.

Mobility in soil

No data available



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Additional ecological information

General information: Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations

Waste treatment methods

Product

Recommendation: Dispose of waste according to applicable legislation.

Package

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

14. Transport information

UN number

ADR/RID, IMDG, IATA-DGR: UN 2967

Land transport (ADR/RID)

Warning board:	ADR/RID: Kemmler-number 80, UN number UN 2967
Product designation:	UN 2967, SULPHAMIC ACID mixture
ADR/RID	Class 8, Code: C2
Packing group	III
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

Sea transport (IMDG)

UN number:	UN 2967
Proper shipping name:	UN 2967, SULPHAMIC ACID mixture
Class or division, Subsidiary risk:	Class 8, Subrisk -
Packing Group:	III
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.
Marine pollutant:	no
Segregation group:	1



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Air transport (IATA)

UN/ID number: UN 2967
Proper shipping name: UN 2967, SULPHAMIC ACID mixture
Class or division, Subsidiary risk: Class 8
Packing Group: III
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

15. Regulatory information

Further regulations, limitations and legal requirements

No data available

16. Other information

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 toxicity - chronic: Hazardous to the aquatic environment - chronic
AS/NZS: Australian Standards/New Zealand Standards
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
Corrosive to Metals: Corrosive to metals
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EC50: Effective Concentration 50%
EN: European Standard
EQ: Excepted quantities
Eye Irritation: Eye irritation
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 Irritation: Skin irritation
TRGS: Technical Rules for Hazardous Substances
UN: United Nations
vPvB: Very persistent and very bioaccumulative

Reason of change: Changes in section 1: Address
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.