



SAFETY DATA SHEET

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

Decalcifier GROHE Sensia® IGS

Material number 491530045

Revision date: 15/12/2022

Version: 10.0

Replaces version: 9.0

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: 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

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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)

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.

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

Chemical characterisation: Sulphamidic acid mixture

Hazardous ingredients:

Identifiers	Designation Classification	Content
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.	>= 75 %
EC No. 207-838-8 CAS 497-19-8	Sodium carbonate Eye Irrit. 2; H319.	1 - 5 %

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.
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.



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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_x), ammonia.

5.3 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.

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.

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.



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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.

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

Physical state at 20 °C and 101.3 kPa	solid
	Form: granulate
Colour:	white
Odour:	odourless
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
Decomposition temperature:	No data available



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pH:	Not applicable
Viscosity, kinematic:	No data available
Water solubility:	soluble
Partition coefficient: n-octanol/water:	No data available
Vapour pressure:	No data available
Density:	approx. 2.1 g/cm ³
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

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

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



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SECTION 11: Toxicological information

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

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.

11.2 Information on other hazards

Endocrine disrupting properties: No data available

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.

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*: ≥ 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.



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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 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.

SECTION 14: Transport information

14.1 UN number or ID 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

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

Marine pollutant: no



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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

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 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.



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SECTION 16: Other 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.

Reason of change:

Changes in section 1: Address

General revision

Changes in section 1: Poisons information service

Date of first version:

10/12/2013

Department issuing data sheet:

see section 1: Department responsible for 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 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

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 Irrit.: 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

Met. Corr.: Corrosive to metals

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

TRGS: Technical Rules for Hazardous Substances

UN: United Nations

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.