

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.07.2026

Version number 1

Revision: 28.07.2026

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

• 1.1 Product identifier

• Trade name: PH Reducer Granules

- Article number: 0811
- CAS Number:
7681-38-1
- EC number:
231-665-7
- Index number:
016-046-00-X
- Registration number 01-2119552465-36-XXXX
- UFI: GAWH-SCNX-RR0K-QR50

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

No further relevant information available.

• Application of the substance / the mixture Water treatment

• 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier:

Chemoform AG
Bahnhofstr. 68, D-73240 Wendlingen
Tel: +49 7024 4048-0, Fax: +49 7024 4048-2800, E-Mail: info@chemoform.com

• Further information obtainable from: datenblatt@chemoform.com

• 1.4 Emergency telephone number: Vergiftungs-Informations-Zentrale Freiburg, Tel. +49 761 19240 (24h)

SECTION 2: Hazards identification

• 2.1 Classification of the substance or mixture

• Classification according to Regulation (EC) No 1272/2008

Eye Dam. 1 H318 Causes serious eye damage.

• Additional information: The full text of the classification and labelling elements mentioned is given in Section 16.

• 2.2 Label elements

• Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

• Hazard pictograms



GHS05

• Signal word Danger

• Hazard-determining components of labelling:

sodium hydrogensulphate

• Hazard statements

H318 Causes serious eye damage.

• Precautionary statements

- | | |
|----------------|--|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing 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. |
| P310 | Immediately call a POISON CENTER/doctor. |

• 2.3 Other hazards

• Results of PBT and vPvB assessment

- PBT: Not applicable
- vPvB: Not applicable

D-E

(Contd. on page 2)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.07.2026

Version number 1

Revision: 28.07.2026

Trade name: PH Reducer Granules

(Contd. of page 1)

SECTION 3: Composition/information on ingredients

- **3.1 Substances**
- **CAS No. Description**
7681-38-1 sodium hydrogensulphate
- **Identification number(s)**
- EC number: 231-665-7
- Index number: 016-046-00-X

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
Take affected persons out of danger area and lay down.
Keep warm, position comfortably and cover well.
Do not leave affected persons unattended.
- **After inhalation:** Take affected persons into fresh air and keep quiet.
- **After skin contact:** Seek medical treatment.
- **After eye contact:**
Protect unharmed eye.
Call a doctor immediately.
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Call a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Foam
Carbon dioxide
Fire-extinguishing powder
Water haze
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Sulphur dioxide (SO₂)
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Keep people at a distance and stay on the windward side.
Avoid formation of dust.
- **6.2 Environmental precautions:**
Keep contaminated washing water and dispose of appropriately.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Pick up mechanically.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

(Contd. on page 3)

D-E

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.07.2026

Version number 1

Revision: 28.07.2026

Trade name: PH Reducer Granules

See Section 13 for disposal information.

(Contd. of page 2)

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

Extractor required at the object.

Keep receptacles tightly sealed.

- **Information about fire - and explosion protection:** The product is not flammable.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage:**

- Requirements to be met by storerooms and receptacles:

Prevent any seepage into the ground.

Provide acid-resistant floor.

Store only in the original receptacle.

- Information about storage in one common storage facility: Store away from foodstuffs.

- Further information about storage conditions:

Protect from humidity and water.

Protect from frost.

- Storage class: 13

- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:** Not required.

- Additional information: The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Appropriate engineering controls** No further data; see section 7.

- **Individual protection measures, such as personal protective equipment**

- General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

- Respiratory protection:

Use suitable respiratory protective device when high concentrations are present.

Short term filter device:

- Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- For the permanent contact gloves made of the following materials are suitable:

Natural rubber, NR

Butyl rubber, BR

Fluorocarbon rubber (Viton)

PVC gloves

- Eye/face protection

Gauze goggles

(Contd. on page 4)

D-E

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.07.2026

Version number 1

Revision: 28.07.2026

Trade name: PH Reducer Granules

(Contd. of page 3)



Tightly sealed goggles

- Body protection:
- Acid resistant protective clothing
- Boots
- Apron

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties

• General Information

• Physical state	Solid
• Colour:	White
• Odour:	Odourless
• Odour threshold:	Not determined
• Melting point/freezing point:	180 °C
• Boiling point or initial boiling point and boiling range	Undetermined
• Flammability	Product is not flammable.
• Lower and upper explosion limit	
• Lower:	Not determined
• Upper:	Not determined
• Flash point:	Not applicable
• Decomposition temperature:	460 °C
• pH	1 – 1,2
• Viscosity:	
• Kinematic viscosity	Not applicable
• Dynamic:	Not applicable
• Solubility	
• water at 20 °C:	1080 g/l
• Partition coefficient n-octanol/water (log value)	Not determined
• Vapour pressure:	Not applicable
• Density and/or relative density	
• Density:	Not determined
• Relative density	Not determined
• Bulk density:	1 kg/m ³
• Vapour density	Not applicable
• Particle characteristics	See section 3.

• 9.2 Other information

• Appearance:

• Form:	Granulate
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• Important information on protection of health and environment, and on safety.

• Ignition temperature:	Not determined
• Explosive properties:	Product does not present an explosion hazard.
• Solids content:	100,0 %
• Change in condition	
• Evaporation rate	Not applicable.

• Information with regard to physical hazard classes

• Explosives	Void
• Flammable gases	Void
• Aerosols	Void
• Oxidising gases	Void
• Gases under pressure	Void
• Flammable liquids	Void
• Flammable solids	Void
• Self-reactive substances and mixtures	Void
• Pyrophoric liquids	Void
• Pyrophoric solids	Void
• Self-heating substances and mixtures	Void

(Contd. on page 5)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.07.2026

Version number 1

Revision: 28.07.2026

Trade name: PH Reducer Granules

(Contd. of page 4)

- Substances and mixtures, which emit flammable gases in contact with water Void
- Oxidising liquids Void
- Oxidising solids Void
- Organic peroxides Void
- Corrosive to metals Void
- Desensitised explosives Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions**
 - Reacts with metals forming hydrogen.
 - Forms hydrogen in aqueous solution with metals.
 - Reacts with strong oxidising agents.
 - Reacts with alkali (lyes).
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Sulphur oxides (SO_x)

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**
- 7681-38-1 sodium hydrogensulphate**
- LD50 2.490 mg/kg (rat)
- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**
- **Endocrine disrupting properties** Substance is not listed.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
 - Toxic to aquatic life with long lasting effects.
- 7681-38-1 sodium hydrogensulphate**
- EC50 1.900 mg/l (algae)
- 1.766 mg/l (daphnia)
- **12.2 Persistence and degradability**
 - Anorganic product, is not eliminable from water by means of biological cleaning processes.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

(Contd. on page 6)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.07.2026

Version number 1

Revision: 28.07.2026

Trade name: PH Reducer Granules

(Contd. of page 5)

- **12.7 Other adverse effects**

- **Additional ecological information:**

- General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Must be specially treated adhering to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

16 05 07* discarded inorganic chemicals consisting of or containing hazardous substances

- **Uncleaned packaging:**

- Recommendation:

Dispose of packaging according to regulations on the disposal of packagings.

Non contaminated packagings may be treated like household garbage.

Not applicable

- Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- **14.1 UN number or ID number**

- **ADR, ADN, IMDG, IATA**

Void

- **14.2 UN proper shipping name**

- **ADR, ADN, IMDG, IATA**

Void

- **14.3 Transport hazard class(es)**

- **ADR, ADN, IMDG, IATA**

- Class

Void

- **14.4 Packing group**

- **ADR, IMDG, IATA**

Void

- **14.5 Environmental hazards:**

- **Marine pollutant:**

No

- **14.6 Special precautions for user**

Not applicable

- **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable

- **Transport/Additional information:**

Not dangerous according to the above specifications.

- **UN "Model Regulation":**

Void

SECTION 15: Regulatory information

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

- **Directive 2012/18/EU**

Named dangerous substances - ANNEX I Substance is not listed.

- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

Substance is not listed.

- **REGULATION (EU) 2019/1148**

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS Substance is not listed.

Regulation (EC) No 273/2004 on drug precursors Substance is not listed.

(Contd. on page 7)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.07.2026

Version number 1

Revision: 28.07.2026

Trade name: PH Reducer Granules

(Contd. of page 6)

- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
Substance is not listed.
- **National regulations:**
- Waterhazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water.
- Other regulations, limitations and prohibitive regulations
TRGS 200: Classification and labelling of substances, preparations and articles.
TRGS 201: Labelling of waste during handling.
TRGS 400: Determination and assessment of hazards from hazardous substances at the workplace: Requirements.
TRGS 440: Determination and assessment of hazards from hazardous substances at the workplace: Determination of hazardous substances and methods for testing substitutes.
TRGS 500: Protective measures: Minimum standards.
TRGS 555: Operating instructions and instruction according to § 20 GefStoffV.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

- Classification according to Regulation (EC) No 1272/2008
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
- **Date of previous version:** 24.07.2026
- **Abbreviations and acronyms:**
ICAO: International Civil Aviation Organisation
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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