



Version number 202.06 (replaces version 202.05) Printing date 17.10.2025 Revision: 16.10.2025

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

- 1.1 Product identifier
- Trade name Vitrex Powder
- Article number: AL137 AL137.5 AL137.500 AL137.000 CAS Number:

7681-38-1

- EC number:

231-665-7

- Index number:

016-046-00-X

- REACh-Registration number 01-2119552465-36
- 1.2 Relevant identified uses of the substance or mixture and uses advised against

For details on the identifiable uses according to EC-regulation No. 1907/2006 see annex of this safety data sheet.

- Restrictions on use:

Restrictions on use according to REGULATION (EC) No 1907/2006 ANNEX XVII apply to this product (see section 15).

- Application of the substance / the mixture

Basic chemical (without special defined application) pH value reducer

- 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

Bullnheimer&Co. GmbH & Co. KG

Im Tal 12

D - 86179 Augsburg

Tel. 0821 / 80850 0

Fax. 0821 80850 90

Mail:info@bullnheimer.de

www.bullnheimer.de

- Informing department:
- e-Mail: info@bullnheimer.de
- 1.4 Emergency telephone number:

This is an English-language document designed for the European region. For the emergency number and other country-specific data, please refer to the specific national versions of this safety data sheet. Bullnheimer&Co. GmbH & Co. KG Tel. +49 821 / 80850-0 Only in office hours: Mon.- Thu. 08:00 - 16:00, -Fri. 08:00 - 13:00.

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.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008

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

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- Hazard pictograms



- Signal word Danger
- Hazard statements

H318 Causes serious eye damage.

- Precautionary statements

P280 Wear eye protection / face 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.

Additional information:

According to the current state of knowledge, no synthetic polymer microparticles > 0.01% are contained.

- 2.3 Other hazards The solid dissolves easily in water to form an acidic, corrosive solution.
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- Determination of endocrine-disrupting properties Not applicable.

SECTION 3: Composition/information on ingredients

- 3.1 Substances Natriumhydrogensulfat NaHSO4
- CAS No. Designation:

7681-38-1 Sodium hydrogensulphate

- Identification no(s):- EC number: 231-665-7
- Index number: 016-046-00-X
- SVHC

This preparation does not contain any substances of very high concern (SVHC) in a concentration of ≥ 0.1 % according to Regulation (EC) 1907/2006, Article 57.

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General advice: If unconscious, position and transport in stable lateral position.
- After inhalation After inhalation of product dust, supply fresh air and consult a doctor.
- After skin contact

Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.

- After eye contact

Rinse immediately opened eye for several minutes under running water. Then consult doctor.

- After swallowing

Rinse out mouth with water.

In case of persistent symptoms consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

Burning and pain of the eyes, mucous membranes and skin. Ulceration of the affected areas. Irritated cough, shortness of breath.

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- **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

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- For safety reasons unsuitable extinguishing agents Water with a full water jet.
- 5.2 Special hazards arising from the substance or mixture

Can be released in case of fire:

sulphur oxides (SOx)

- 5.3 Advice for firefighters
- Protective equipment:

See section 8.

Wear full protective suit with self-contained breathing apparatus.

- Additional information Collect contaminated fire fighting water separately. Do not allow to enter drains.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep off unprotected persons

Ensure adequate ventilation

Avoid causing dust.

Do not inhale dust.

Avoid eye and skin contact.

- 6.2 Environmental precautions:

Damp down dust with water spray jet.

Do not allow to enter drainage system, surface or ground water.

In case of release of larger quantities, inform competent authorities.

- 6.3 Methods and material for containment and cleaning up:

Take up mechanically and rinse off residues with water. Avoid formation of dust. Take up in suitable containers and send for recovery or disposal according to item 13.

- 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling

Ensure good ventilation/extraction at the workplace.

Avoid formation of dust and aerosols.

When dissolving, always put water in front and stir in the product.

Avoid contact with eyes or skin.

- Information about protection against explosions and fires: The product is not flammable
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage Store in cool, dry conditions in well sealed containers.
- Requirements to be met by storerooms and containers:

Observe laws and regulations on the storage and use of substances hazardous to water.

Keep container tightly closed and dry.

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- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store container in a well ventilated position.
- Storage class 13 (TRGS 510)
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
- Components with critical values that require monitoring at the workplace: Not required.
- DNELs No DNEL value has been established.

Divided No Bivel value has been established.		
- PNECs		
PNEC water	17,66 mg/l (intermittent releases)	
	11,09 mg/l (freshwater)	
PNEC water	1,109 mg/l (marine water)	
PNEC	800 mg/l (sewage plant)	
PNEC	1,54 mg/kg dw (soil)	
PNEC sediment	40,2 mg/kg dw (freshwater)	
	4,02 mg/kg dw (marine water)	

- Additional information: The lists that were valid during the compilation were used as basis.
- 8.2 Exposure controls
- Appropriate engineering controls Extraction required in case of dust formation.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Do not inhale dust. Prevent formation of dust.

Do not eat, drink or smoke while working.

- **Breathing equipment:** Breathing protection to be used where a build-up of dust occurs.
- Recommended filter device for short term use: Filter P1
- Hand protection

Protective gloves (EN 374).

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

Butylrubber (BR) with 0,7 mm or nitrile rubber (NBR) with 0,4 mm coating thickness (recommended: protective index 6, corresponding > 480 minutes of permeation time according to EN 374). Attention! Due to conditions (stressing, temperature) the practical usage of chemical protective gloves may be much shorter than the permeation time according to EN 374.

Indication of sodium hydrogen sulphate, aqueous solution.

- Eye/face protection Tightly sealed safety glasses.

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- Body protection:

Standard protective work clothing. Chemical-resistant safety shoes or boots. If skin contact may occur, wear protective clothing impermeable to this substance.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Physical state
- Colour:
- Smell:
- Odour threshold:
Solid.
Yellowish
Odourless
Not determined.

- Melting point/freezing point: 180 °C

- Boiling point or initial boiling point and boiling

range Not determined

- Flammability Product is not inflammable.

- Lower and upper explosion limit

- Lower: Not determined.- Upper: Not determined.

- Flash point: Product is non-flammable nor potentially explosive

- Decomposition temperature: 460 °C - pH 1-1,2

pH-value:Viscosity:

Kinematic viscosity
 dynamic:
 Not applicable.
 Not applicable.

- Solubility

- Water at 20 °C: 1080 g/l

- Partition coefficient n-octanol/water (log value)
 - Vapour pressure:
 Not determined.
 Not applicable.

- Density and/or relative density

Density at 20 °C
 Relative density
 Settled apparent density
 Vapour density
 Particle characteristics
 2,44 g/cm³
 Not determined.
 1200-1500 kg/m³
 Not applicable.
 See section 3.

- 9.2 Other information

- Appearance:

- Form: Solid.

- Important information on protection of health and environment, and on safety.

- **Self-inflammability:** Not determined.

- Explosive properties: Product is not potentially explosive

Molecular weight 120,07 g/mol
 Evaporation rate Not applicable.

- Information with regard to physical hazard classes

- Explosives Void
- Flammable gases Void
- Aerosols Void
- Oxidising gases Void





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- 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		
- 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		
molecular weight (weight average/Mw):	120,07 g/mol		

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Product forms sodium disulphate when heated, splitting off water. Above 460 °C decomposition with formation of sodium sulphate and sulphur trioxide.

- 10.3 Possibility of hazardous reactions

The solid dissolves easily in water to form an acidic, corrosive solution.

- 10.4 Conditions to avoid Humidity
- 10.5 Incompatible materials:

Strong bases

Oxidising agent

- 10.6 Hazardous decomposition products:

Thermal decomposition can result in

Sulphur oxides (SOx)

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 that are relevant for classification:

Oral LD50 2140 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.

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- 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:

LC 50 / 48 h 7960 mg/l (Pimephales promelas)

1766 mg/l (Daphnia magna)

LC 50 >2,4 mg/l (rat)

- 12.2 Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

- 12.3 Bioaccumulative potential Bioaccumulation is unlikely.
- 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.

- 12.7 Other adverse effects
- Behaviour in sewage processing plants: NOEC activated sludge: 8 g/L/37d
- Additional ecological information:
- General notes:

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

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods

The note below refers to the product left as it is and not to further processed products. When mixed with other products, other disposal routes may be required; if in doubt, consult the supplier of the product or the local authority.

Recommendation

After prior treatment product has to be landfilled under adherence to the regulations pertaining to the disposal of particularly hazardous waste.

- Waste disposal key number:

Since 1 January 1999, the waste code numbers have not only been product-related but essentially application-related. The waste code number valid for the application can be taken from the European Waste Catalogue.

- European waste catalogue		
06 00 00	WASTES FROM INORGANIC CHEMICAL PROCESSES	
06 03 00	wastes from the MFSU of salts and their solutions and metallic oxides	
06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13	

- Uncleaned packagings: Disposal in accordance with official regulations.





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- Recommendation:

Empty containers completely and send them cleaned for reconditioning or recycling. Dispose of containers only in consultation with local authorities.

Uncleaned empty containers must be treated in the same way as the ingredients.

SECTION 14: Transport information			
- 14.1 UN number or ID number - ADR/RID, IMDG, IATA	Void		
- 14.2 UN proper shipping name - ADR/RID, IMDG, IATA	Void		
- 14.3 Transport hazard class(es)			
- ADR/RID, IMDG, IATA - Class	Void		
- 14.4 Packing group - ADR/RID, 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 IMC 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
- 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 statements

H318 Causes serious eye damage.

- Precautionary statements

P280 Wear eye protection / face 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.

- Directive 2012/18/EU
- Named dangerous substances ANNEX I Substance is not listed.

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- LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Substance is not listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 75
- 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
- Regulation (EC) No 273/2004 on drug precursors Substance is not listed.
- 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
- Information about limitation of use:

Employment restrictions concerning young persons must be observed.

- Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57 Substance is not listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This safety data sheet complies with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2023/707.

Department issuing data specification sheet:

Bullnheimer & Co. GmbH & Co. KG Im Tal 12

D-86179 Augsburg Tel.: +49 82180850 -0 E-Mail: <u>info@bulInheimer.de</u> - **previous version:** 16.10.2024

- Version number of previous version: 202.05

- Abbreviations and acronyms:

LEV. Local Exhaust Ventilation

RPE: Respiratory Protective Equipment

RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)

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 Harmonized System of Classification and Labelling of Chemicals

CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)
TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

SVHC: Substance of Very High Concern SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

- * Data compared to the previous version altered.

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- ANNEX Exposure Scenarios:

Manufacture of substance Industrial use Commercial uses Consumer end use Use as pH regulator(s)

EUE