

Safety data sheet

according to 1907/2006/EC, Article 31 & 2020/878/EC

Printing date 19.04.2023

Version number 2 (replaces version 1)

Revision: 19.04.2023

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

· 1.1 Product identifier

· Trade name: **4503 VISSIN product for removing broken screws**

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

· **Sector of Use** SU21 Consumer uses: Private households / general public / consumers

· **Application of the substance / the preparation** : Screw loosening agent

· 1.3 Details of the supplier of the safety data sheet

· **Manufacturer/Supplier:**

BERGEON SA

Allée des Défricheurs 4

CH-2300 La Chaux-de-Fonds

Switzerland

Tel: +41 32 933 60 00

Fax: +41 32 933 60 01

E-mail: mail: info@bergeon.swiss

http://www.bergeon.swiss

· 1.4 Emergency telephone number:

France (INRS 24h/24) - Tel : +33 (0)1 45 42 59 59

Ireland - Tel : 00 353 1 8092568 - 00 353 1 8379964 (24h/24) EU Tel: 112

Belgium - Brüssel: +32 070/245 245

UK : Call NHS 999 in a medical emergency. If you urgently need medical help or advice but it's not a life-threatening situation, call 111 (24/7). The NHS 111 number is currently only available in certain areas. If you're outside of these areas, you should call NHS Direct on 0845 4647

Swiss Toxicological Information Centre (Zürich) : +41 44 251 51 51 / www.toxi.ch.

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· **Classification according to Regulation (EC) No 1272/2008 :**



GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

· 2.2 Label elements

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

· **Hazard pictograms**



GHS05

· **Signal word** Danger

· **Hazard-determining components of labelling:**

sulphuric acid 98 %

· **Hazard statements**

H314 Causes severe skin burns and eye damage.

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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.
- P260 Do not breathe dusts or mists.
- P264 Wash thoroughly after handling.
- P280 Wear protective gloves / eye protection / face protection.
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **2.3 Other hazards**

The mixture shall not contain substances listed in accordance with Article 59(1) of UK REACH as having endocrine disrupting properties, or be recognised as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in a concentration equal to or greater than 0.1%.

- **Results of PBT and vPvB assessment**


- **PBT:** Not applicable.
 - **vPvB:** Not applicable.
-

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Description:** Mixture: consisting of the following components.

- **Dangerous components:**

CAS: 7664-93-9	sulphuric acid 98 %	50-100%
EINECS: 231-639-5	 Skin Corr. 1A, H314; Eye Dam. 1, H318	
Index number: 016-020-00-8	Specific concentration limits: Skin Corr. 1A; H314: C ≥ 15 %	
Reg.nr.: 01-2119458838-20-xxxx	Skin Irrit. 2; H315: 5 % ≤ C < 15 %	
	Eye Irrit. 2; H319: 5 % ≤ C < 15 %	

- **Additional information:** For the wording of the listed risk phrases, refer to section 16.
-

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**
In case of unconsciousness place patient in a stable laying down side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
Do not induce vomiting; call for medical help immediately.
Drink plenty of water and provide fresh air. Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed :**
No further relevant information available.

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- **4.3 Indication of any immediate medical attention and special treatment needed :**
No further relevant information available.
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SECTION 5: Firefighting measures

- **5.1 Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
 - **5.2 Special hazards arising from the substance or mixture :** No further relevant information available.
 - **5.3 Advice for firefighters**
 - **Protective equipment:** No special measures required.
-

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures :**
Wear protective equipment. Keep unprotected persons away.
 - **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow the product to enter sewers/ surface water or ground water.
 - **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
 - **6.4 Reference to other sections :**
See Section 7 for information on safe handling.
See Section 8 for information on personal protective equipment.
See Section 13 for disposal information.
-

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling :**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
 - **Information about fire - and explosion protection:** No special measures required.
 - **7.2 Conditions for safe storage, including any incompatibilities**
 - **Storage:**
 - **Requirements to be met by storerooms and receptacles:** No special requirements.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:** Keep container tightly sealed.
 - **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:**
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CAS: 7664-93-9 sulphuric acid 98 % (50-100%)

WEL (Great Britain) Long-term value: 0.05* mg/m³

*mist: defined as thoracic fraction

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IOELV (EU) Long-term value: 0.05 mg/m³
 MAK (Switzerland) Short-term value: 0.2 e mg/m³
 Long-term value: 0.1 e mg/m³
 C1a SSc;MAK eingehalten: kein erhöhtes Krebsrisiko

· DNELs
CAS: 7664-93-9 sulphuric acid 98 %Inhalative DNEL Worker long-term local effects 0.05 mg/m³DNEL Worker acute/short-term local effects 0.1 mg/m³

· PNECs
CAS: 7664-93-9 sulphuric acid 98 %

PNEC STP 8.8 mg/L

PNEC aqua (fresh water) 0.0025 mg/L

PNEC aqua (marine water) 0.0025 mg/L

PNEC sediment (fresh water) 0.002 mg/kg

PNEC sediment (marine water) 0.002 mg/kg

· Additional information:

The most current valid lists have been used as a basis for the production of this document.

· 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:**

Keep away from food, beverages and petfood.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid all contact with the eyes.

Avoid contact with the eyes and skin.

- **Respiratory protection:**



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter P2

- **Hand protection**



Protective gloves

- **Gloves material** : Butyl rubber, BR

- **Eye/face protection**



Tightly sealed goggles

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state	Liquid
· Form:	Liquid
· Colour:	Colourless
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	310 °C
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable.
· Auto-ignition temperature:	Not applicable.
· Decomposition temperature:	338 °C
· pH at 20 °C	<1
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	26.9 mPas
· Solubility	
· water:	Fully miscible.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	<0.0001 hPa
· Density and/or relative density	
· Density at 20 °C:	1.84 g/cm ³
· Relative density :	Not determined.
· Vapour density :	Not determined.

· 9.2 Other information :

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

· Ignition temperature:	Product is not self igniting.
· Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	
· COV (CH) :	0.00 %
· Change in condition	
· Evaporation rate :	Not determined.

· Information with regard to physical hazard classes

· Explosives	Not classified as hazardous
· Flammable gases	Not classified as hazardous
· Aerosols	Not classified as hazardous
· Oxidising gases	Not classified as hazardous
· Gases under pressure	Not classified as hazardous
· Flammable liquids	Not classified as hazardous
· Flammable solids	Not classified as hazardous

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· Self-reactive substances and mixtures	Not classified as hazardous
· Pyrophoric liquids	Not classified as hazardous
· Pyrophoric solids	Not classified as hazardous
· Self-heating substances and mixtures	Not classified as hazardous
· Substances and mixtures, which emit flammable gases in contact with water	Not classified as hazardous
· Oxidising liquids	Not classified as hazardous
· Oxidising solids	Not classified as hazardous
· Organic peroxides	Not classified as hazardous
· Corrosive to metals	Not classified as hazardous
· Desensitised explosives	Not classified as hazardous

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.
 - **10.3 Possibility of hazardous reactions :**
Reacts with light alloys to form hydrogen.
Reacts with alkaline metals.
Reacts with reducing agents.
Reacts with strong alkali.
 - **10.4 Conditions to avoid :** No further relevant information available.
 - **10.5 Incompatible materials:** No further relevant information available.
 - **10.6 Hazardous decomposition products:**
Hydrogen
Sulphur dioxide
-

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:**
CAS: 7664-93-9 sulphuric acid 98 %
Oral LD50 2,140 mg/kg (rat)
Inhalative LC50/4 h 850 mg/l (mouse)
347 mg/l (rat)
- **On the skin:**
Causes severe skin burns and eye damage.
- **On the eyes:** Causes serious eye damage.
- **Respiratory or skin sensitization** 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.

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- **11.2 Information on other hazards**
- **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**

CAS: 7664-93-9 sulphuric acid 98 %

EC50 72h >100 mg/l (Algae)

EC50 48h >100 mg/l (daphnia)

EC50 96h 16-28 mg/l (fish)

- **12.2 Persistence and degradability** : No further relevant information available.
- **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** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects** : No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

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

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Throwing away bigger amounts into drains or aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the diluted product use, the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only slightly polluting for water.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** :



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

- **European waste catalogue**

HP8 Corrosive

- **Uncleaned packaging:**
 - **Recommendation:** Disposal must be made according to official regulations.
 - **Recommended cleansing agents:** Water, if necessary together with cleansing agents.
-

SECTION 14: Transport information

- **14.1 UN number or ID number**
- **DOT, ADR, IMDG, IATA**

UN1830

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- **14.2 UN proper shipping name**
- **ADR** UN1830 SULPHURIC ACID
- **IMDG, IATA** SULPHURIC ACID
- **14.3 Transport hazard class(es)**

· **ADR**

- **Class** 8 (C1) Corrosive substances.
- **Label** 8

 · **IMDG, IATA**


- **Class** 8 Corrosive substances.
- **Label** 8
- **14.4 Packing group**
- **ADR, IMDG, IATA** II
- **14.5 Environmental hazards:** Not applicable.
- **14.6 Special precautions for user** Warning: Corrosive substances.
- **Hazard identification number (Kemler code):** 80
- **EMS Number:** F-A,S-B
- **Segregation groups** (SGG1a) Strong acids
- **Stowage Category** C
- **Stowage Code** SW15 For metal drums, stowage category B.
- **Segregation Code** SG36 Stow "separated from" SGG18-alkalis.
SG49 Stow "separated from" SGG6-cyanides
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- **Transport/Additional information:**

· **ADR**

- **Limited quantities (LQ)** 1L
- **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
- **Transport category** 2
- **Tunnel restriction code** E

· **IMDG**

- **Limited quantities (LQ)** 1L
- **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
- **UN "Model Regulation":** UN 1830 SULPHURIC ACID, 8, II

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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** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
None of the ingredients is listed.
- **REGULATION (EU) 2019/1148**
- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
CAS: 7664-93-9 sulphuric acid 98 %: Limit value: >15-≤40 % (50-100%)
- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**
None of the ingredients is listed.
- **Regulation (EC) No 273/2004 on drug precursors**
CAS: 7664-93-9 sulphuric acid 98 %: 3
- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
CAS: 7664-93-9 sulphuric acid 98 %: 3
- **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.

Classification in accordance with Delegated Regulation (EU) 2022/692 of 16 February 2022 adapting to technical and scientific progress GB CLP for the 18th time and amending table 3 of Annex VI part 3 of Regulation (EC) 1272/2008.

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

- **Relevant phrases**
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
- **Classification according to Regulation (EC) No 1272/2008**
Skin corrosion/irritation The classification of the mixture is generally based on the calculation
Serious eye damage/irritation method using substance data according to Regulation (EC) No 1272/2008.
- **Date of previous version:** 19.04.2023
- **Version number of previous version:** 1
- **Abbreviations and acronyms:**
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
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)

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DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

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

—GB—