

SAFETY DATA SHEET

Complies with regulations 1907/2006/EC (REACH)
and 1272/2008/EC (CLP - annex VI)



Version: 2.1
Revision: 02.10.2015
Printing date: 04.06.2015

Page 1 / 10

VISSIN "TRIUM" + 15%

SECTION 1

IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier

Trade Name **4503 Vissin "TRIUM" + 15%**

1.2 Relevant identified uses of the substance or mixture

Product to remove screws.

1.3 Details of the supplier of the safety data sheet

Producer / Supplier : BERGEON SA
Avenue du Technicum 11
CH – 2400 Le Locle
TEL: + 41 (0)32 933 60 00
FAX: + 41 (0)32 933 60 01
bergeon@bergeon.ch

Contact for information: Tel: + 41 (0)32 933 60 00

Fax: + 41 (0)32 933 60 01

Responsible person: Tel: +41 (0)32 933 60 00

Clients will be redirected to their personal contact.

1.4 Emergency telephone number

Centre for toxicological information (Switzerland): 145 or +41 (0)44 251 51 51

112 (Europe)

Refer to the emergency call numbers of the approved body or the poison control centre of the country.

SECTION 2

HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification according to EC regulation no. 1272/2008 [CLP]

Corrosion / Skin irritation (Skin Corr. 1A) – H314

2.1.2 Classification under directives 67/548/EEC or 1999/45/EC

Corrosive (C) – R35

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Complies with regulations 1907/2006/EC (REACH)
and 1272/2008/EC (CLP - annex VI)



Version: 2.1
Revision: 02.10.2015
Printing date: 04.06.2015

Page 2 / 10

VISSIN "TRIUM" + 15%

2.2 Label Elements

2.2.1 Labelling under EC regulation no. 1272/2008



SGH05

(Contains: sulphuric acid)

Signal word: **Danger**

Hazard statements:

H314 **Causes severe skin burns and eye damage**

Precautionary statements:

P260 Do not breathe gas/mist/vapours/spray
P264 **Wash hands 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): remove contaminated clothing immediately. Rinse skin with water/shower**
P304+P340 **IF INHALED: remove the 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**
P310 **Immediately call a POISON CENTRE or doctor**
P321 Specific treatment (see this label)
P363 Wash contaminated clothing before reuse
P405 Store locked up
P501 **Dispose of the content/container**

If the mixture is accessible to the general public, the packaging must be fitted with a safety closure for children, the indication of danger detectable by touch, as well as the phrases P101 and P102.

2.2.2 Classification under directives 67/548/EEC or 1999/45/EC



C

R-phrases:

R35 Causes severe burns

S-phrases:

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S30 Never add water to this product.
S45 In case of accident or if you feel unwell, seek medical advice immediately and show this container or label.

The stopper fitted with a child safety device, the indication of danger detectable by touch, the phrase S2 and the nominal quantity are mandatory if the product is intended for the general public.

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Complies with regulations 1907/2006/EC (REACH)
and 1272/2008/EC (CLP - annex VI)



Version: 2.1
Revision: 02.10.2015
Printing date: 04.06.2015

Page 3 / 10

VISSIN "TRIUM" + 15%

2.3 Other hazards

Danger to health:	Hazardous to Health
Physical or chemical hazards	Not classified as flammable
Danger for the environment	Not classified as hazardous to the aquatic environment

SECTION 3

COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Hazardous ingredients under regulation no. 1272/2008/EC

Name	CAS-No.	EC-No.	Weight %	Symbol	Hazard statements
Sulphuric Acid	7664-93-9	231-639-5	15-100%	Skin Corr. 1A	H314

3.2 Hazardous ingredients under directive 1999/45/EC and regulation no. 1272/2008/EC

Name	CAS-No.	EC-No.	Weight %	Symbol	Risk Phrases
Sulphuric Acid	7664-93-9	231-639-5	15-100%	C	R35

See Section 16 for the full text of the symbols mentioned in this section.

SECTION 4

FIRST AID MEASURES

4.1 General Advice

Show this safety data sheet to the doctor(s).
If the symptoms persist or if the slightest doubt exists, seek medical advice.
Never give anything by mouth to an unconscious person (neither food nor drink).
Immediately remove clothing contaminated by the product.

4.2 Main symptoms and effects, both acute and delayed

4.2.1 Inhalation

Evacuate the victim from the contaminated area and place in a well-ventilated area. If unconscious, have the victim lie down in a stable lateral position. Consult a doctor if the symptoms persist.

4.2.2 Contact with the skin

Dab with polyethylene glycol 400. Rinse carefully with soap and water. Rinse well. If persistent irritation or redness appears, consult a doctor.
Wash contaminated clothing before reusing them.

4.2.3 Contact with the eyes

Rinse thoroughly with water for several minutes while holding the eyelids open and consult a doctor.

4.2.4 Ingestion

DO NOT INDUCE VOMITING. Drink plenty of water. Consult a doctor immediately.

SAFETY DATA SHEET

Complies with regulations 1907/2006/EC (REACH)
and 1272/2008/EC (CLP - annex VI)



Version: 2.1
Revision: 02.10.2015
Printing date: 04.06.2015

Page 4 / 10

VISSIN "TRIUM" + 15%

4.3 Indication of any immediate medical attention and specific treatment needed

Symptoms	No data available
Nature of the hazard	No data available
Treatment	No data available

SECTION 5

FIRE-FIGHTING MEASURES

5.1 Extinguishing media

- **Recommended agent:** carbon dioxide, extinguishing powder, water spray or fog. Combat the major centres of outbreak with water spray or alcohol-resistant foam.
- **Non-appropriate agent:** Do not use a jet of water because it will deviate and spread the fire.

5.2 Special hazards

Hazardous decomposition products: sulphur oxides (SO_x).

5.3 Advice for fire-fighters

Suitable protective equipment including chemical resistant gloves must be used; chemical resistant coveralls are recommended in case of prolonged contact with the product. It is advisable to wear a self-contained breathing apparatus in case of a fire in an enclosed place.
Do not inhale the combustion and explosion gases.

5.4 Additional indications

Cool exposed containers by spraying water.

SECTION 6

MEASURES TO BE TAKEN IN CASE OF ACCIDENTAL RELEASE

6.1 Personal protection, protective equipment and emergency procedures

Ensure proper and sufficient ventilation. Wear respiratory protection.
Wear individual protective clothing.
Keep non-protected persons away from the area.
Please consult the information contained in section 4.

6.2 Environmental precautions

Contain the spill by using a retention system. Dilute with plenty of water.
Do not contaminate the ground or groundwater (sewers, rivers, canals, ditches, bodies of water, etc.) with chemical substances. In case of penetration into the groundwater or sewers, notify the competent authorities.
Observe the instructions for use in order to avoid risks to humans and the environment.

6.3 Methods and materials for containment and cleaning up

Absorb with inert porous material (neutralising acid, diatomaceous earth, universal binder or other) and evacuate the contaminated materials as waste products in compliance with current legislation.
Ensure sufficient ventilation.

6.4 Additional indications

Ensure maximum dilution, with plenty of water. Neutralise with sodium carbonate to pH 7.

SAFETY DATA SHEET

Complies with regulations 1907/2006/EC (REACH)
and 1272/2008/EC (CLP - annex VI)



Version: 2.1
Revision: 02.10.2015
Printing date: 04.06.2015

Page 5 / 10

VISSIN "TRIUM" + 15%

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

The product must be kept in its original packaging.

Use in ventilated premises. Ensure good aeration/ventilation/extraction of the workstation.

Avoid contact with skin and eyes.

Avoid the formation of aerosols. Do not breathe vapours.

7.2 Conditions for safe storage including any incompatibilities

Store in a cool and ventilated place.

Do not store in metal packaging (attacks iron and some metals).

Provide a floor resistant to acids.

Keep the containers hermetically sealed when they are not used in a dry, well-ventilated place.

7.3 Specific end use(s):

Do not use for a purpose other than that for which the product is intended.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure limits

Technical measures:

Ensure adequate ventilation

Limit value at the workplace:

Sulphuric acid:

TWA (mg/m³): 0.1 (inhalable dust)

STEL (mg/m³): 0.1 (inhalable dust)

8.2 Exposure controls

Observe standard measures of hygiene in the work area and during handling of the product: keep away from foodstuffs, beverages and animal feed, remove any contaminated clothing, wash hands before breaks and at the end of work and avoid any contact with the eyes and skin.

8.3 Personal protective equipment

Define the procedures for safe handling and the assurance of controls. Train workers and explain to them the dangers and measures of control relating to normal activities associated with this product. Ensure the proper maintenance of the equipment used to control exposure (personal protective equipment, ventilation by extraction, etc.). Always observe the appropriate measures of personal hygiene such as washing hands after handling. Regularly clean work clothing and protection equipment to eliminate any contaminants. Ensure the proper maintenance of the premises.

- Respiratory protection: In case of low exposure or of short duration, use a respiratory filter; in the event of intense or sustained exposure, use a self-contained breathing apparatus.
- Hand protection: Wear chemical resistant gloves that comply with European standard EN374 (PVC, neoprene or nitrile rubber)
- Eye protection: Airtight protective goggles.
- Skin protection: Appropriate work clothing.

The equipment must conform with European standards (EN standards) which are also recognized in Switzerland.

SAFETY DATA SHEET

Complies with regulations 1907/2006/EC (REACH)
and 1272/2008/EC (CLP - annex VI)



Version: 2.1
Revision: 02.10.2015
Printing date: 04.06.2015

Page 6 / 10

VISSIN "TRIUM" + 15%

8.4 Environmental exposure controls

Avoid polluting sewers and groundwater with chemical substances.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Appearance:

Form	Colour	Odour
Liquid	Colourless	-

9.2 Information on the basic physical and chemical properties

pH	: < 7 (strongly acidic)
Dynamic viscosity	: 26.9 mPa s (25°C)
Melting point	: 15°C
Boiling point	: 330°C
Auto-ignition temperature	: not applicable
Flash point	: not applicable
Explosive limits in air	: not applicable
Vapour pressure	: (20°C) approx. 0.0001 mbar
Molecular weight	: 98.08
Density	: (20°C) 1.3 g/cm ³
Solubility in water (20°C)	: soluble (warning: heat release)

9.3 Other information

None

SECTION 10

STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under the recommended conditions of storage and handling.

10.3. Possibility of hazardous reactions

Reacts strongly in contact with water.

10.4. Conditions to avoid

In the case of dilution, put the acid into the water, never the opposite. Intense heat.

10.5. Incompatible materials

Water, alkali metals, alkali compounds, ammonia, alkaline-earth metals, alkaline-earth compounds, bases, acids, metals, metal alloys, phosphorus, oxides of phosphorus, hydrides, halogen-halogen compounds, oxo-halogen derivatives, permanganates, nitrates, carbides, combustible substances, organic solvents, acetylene, nitriles, organic nitrated compounds, aniline, peroxides, picrates, nitrides, lithium silicide.

10.6. Hazardous decomposition products

Sulphur oxides (SO_x), toxic gases of unknown composition.

SAFETY DATA SHEET

Complies with regulations 1907/2006/EC (REACH)
and 1272/2008/EC (CLP - annex VI)



Version: 2.1
Revision: 02.10.2015
Printing date: 04.06.2015

Page 7 / 10

VISSIN "TRIUM" + 15%

SECTION 11

TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Sulphuric Acid: LD50 (oral): 2 140 mg/kg (rat)

Skin corrosion / Skin irritation

Causes severe burns to the skin.

Severe eye damage / eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Not considered a sensitising agent.

Germ cell mutagenicity

Not considered as being a mutagen hazard.

Carcinogenicity

Not considered as a danger.

Reproductive toxicity

Not considered as a danger.

Specific toxicity for certain target organs - single exposure

Not considered as a danger.

Specific toxicity for certain target organs - repeated exposure

Not considered as a danger.

Aspiration hazard

Not considered as a danger.

Potential effects on health

Inhalation	Damage to the mucous membranes concerned
Ingestion	Damage to the mouth, oesophagus and digestive tract. Danger of perforation of the oesophagus and the stomach. Appearance of severe pain, nausea, vomiting and diarrhoea, after a period of latency of several weeks, possibly pyloric stenosis.
Contact with the skin	Serious burns with tissue destruction
Contact with the eyes	Burns, danger of loss of sight, appearance of corneal lesions

11.2 Additional information

No information available.

SECTION 12

ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Probably not very significant.

Localised effects: may give rise to a modification of the pH resulting in a deterioration of the aquatic environment.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

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and 1272/2008/EC (CLP - annex VI)



Version: 2.1
Revision: 02.10.2015
Printing date: 04.06.2015

Page 8 / 10

VISSIN "TRIUM" + 15%

12.4 Mobility in the soil

No information available.

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

Do not allow the undiluted or non-neutralised product penetrate the wastewater or sewer system.

The disposal of large quantities in the sewers or bodies of water can lead to a decrease of the pH value. A low pH value is harmful to aquatic organisms. With dilution, the pH value increases considerably: after dilution of the product, the waste water that arrives in the sewers is only mildly contaminating for the water.

SECTION 13

DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

This product should not be eliminated in the sewage system nor be disposed of in household rubbish dumps. It must be disposed of in compliance with current local and national regulations.

Chemical residues are generally considered as special waste.

The packaging may contain residues of the product and must be treated accordingly.

Legal Requirements:

Ordinance on the treatment of waste (OTD; SR 814.600), ordinance on the movement of waste (OMoD; SR 814.610), DETEC ordinance concerning the lists for the movement of waste (SR 814.610.1)

13.2 Additional information

OMoD code for sulphuric acid: 06 01 01

The classification of waste is always the responsibility of the end user.

SECTION 14

TRANSPORT INFORMATION

14.1 UN Number

UN number 1830

14.2 Shipping name

UN1830 SULPHURIC ACID containing more than 51% acid, 8, II

14.3 Transport hazard class(es)

ADR/RID

Designation for shipping	UN1830 SULPHURIC ACID containing more than 51% acid				
Class	8	Packing group	II	Labelling	8
Classification code	C1	Hazard identification	80		

IMDG

Designation for shipping	UN1830 SULPHURIC ACID containing more than 51% acid				
Class	8	Packing group IMO	II	Labelling	8
Classification code		Hazard identification		Marine pollutant	no

IATA-DGR

Designation for shipping	UN1830 SULPHURIC ACID containing more than 51% acid				
Class	8	Packing group	II	Labelling	8
Classification code		Hazard identification			

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Complies with regulations 1907/2006/EC (REACH)
and 1272/2008/EC (CLP - annex VI)



Version: 2.1
Revision: 02.10.2015
Printing date: 04.06.2015

Page 9 / 10

VISSIN "TRIUM" + 15%

14.4 Environmental hazards

No indication available

14.5 Special precautions for the user

Personal precautions : No indication available
Emergency measures in the event of an accident : No indication available
Other data : -

14.6 Transport in bulk in compliance with Annex II of MARPOL 73/78 and the IBC code

Not applicable

SECTION 15

REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific to the substance or mixture

Ensure that all national or local regulations are complied with.

National requirements (Switzerland):

Regulatory indications under the ordinances on the protection of maternity (SR 822.11.52), on the protection of young workers (OLT5) and under the ordinance of the DEFR on hazardous work for young people (SR822.115.2):
Sulphuric Acid: If the OEL (see section 8) is respected, there is no risk of damage to the fetus.

Prohibitions/restrictions for import and sale under the ordinance on the reduction of risks related to chemicals (ORRChim; SR 814.81)

No restrictions

Concentration of emissions under the ordinance on the protection of the air (OPair; SR814.318.142.1):

Sulphuric acid: limit value of 250 mg/m³ (class 4) for a mass flow equal or sup. to 2 500 g/h

Quantitative threshold under the ordinance on the protection against major accidents (OPAM; SR814.012)

For the product: 2 000 kg

Regulatory indications under ORRchim, OChim, the ordinance on phytosanitary products (OPPh; SR 916.161) or the ordinance on biocidal products (OPBio; SR 813.12):

No indication

15.2. Chemical safety assessment

No data available.

SECTION 16

OTHER INFORMATION

Classification of ingredients under 1278/2008/EC (CLP)

Skin Corr. – Corrosion / Skin Irritation

Text of H-phrases:

H314 – Causes severe skin burns and eye damage

Classification of all ingredients (1907/2006/EC)

C – Corrosive

Text of R-phrases:

R35 Causes severe burns

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and 1272/2008/EC (CLP - annex VI)



Version: 2.1
Revision: 02.10.2015
Printing date: 04.06.2015

Page 10 / 10

VISSIN "TRIUM" + 15%

References

The information presented (classification, labelling, etc.) is determined on the basis of the information presented in the safety data sheet provided by the supplier and the current legislation. The data presented in sections 1, 8, 13 and 15 are supplemented by specific information from the current Swiss legislation.

Warning to users

The information contained in this data sheet is based on the state of our knowledge relating to the product shown and on the date indicated. The information is given in good faith. It cannot be considered as an exhaustive list and in no case does it exempt users from referring to the official texts for their obligations and responsibility. The attention of the users is also drawn to the risks incurred when a product is used for purposes other than those for which it is intended.
