

## **MATERIAL SAFETY DATA SHEET**

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### 1. IDENTIFICATION OF SUBSTANCE

Trade name : **VISSIN TRIUM + 10%**

Manufacturer/supplier : **BERGEON & CIE S.A.**  
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### 2. COMPOSITION / DATA COMPONENTS

Chemical characterization/description: Sulphuric acid and dilution

Dangerous components:

• CAS 7664-93-9      Sulphuric acid      10%      R35 C

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### 3. HAZARDOUS IDENTIFICATION

- **Symbol (EU): C**  
R35: causes serious burn
  - Water's hazard rank: Switzerland: 2
  - Symbol of danger: C
- .....

### 4. FIRST AID

- **After eyes contact**  
Rinse immediately opened eyes for 15 minutes under running water. Then consult a doctor
- **After skin contact**  
Take of cloths and wash them carefully. Wash immediately with soap and water all parts of your body which have been in touch with the product.
- **After ingestion**  
Rinse the mouth; diluting with large quantity of water; do not vomit (danger of suffocation); call immediately a doctor.
- **After inhalation**  
Go immediately outside to get fresh air and rest. In case of uneasy, call a doctor.

## 5. FIRE FIGHTING MEASURES

- Adapting the fire extinction rules
  - Cooling hot exposed packaging
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## 6. ACCIDENTAL RELEASE MEASURES

- It is forbidden throwing down in the waters (drains, rivers, etc.)
  - Dam a maximum of product helping by an universal pliant, then collect and give it to an agreed centre.
  - Clean the last small quantities with water and neutralize with sodium carbonate.
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## 7. HANDLING AND STORAGE

### Information for safe handling

- Ensure good ventilation at the stock and workplace.

### Storage conditions

- Keep bottles tightly sealed.
- Storage in a fresh room.
- Do not use iron stock-cases.
- Do not store together with concentrated alkaline products neither with organics products.

### Protection against fire/explosions

- Iron bite, releases inflammable hydrogen and can be explosive when mixed up.
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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- VME:  $1\text{mg/m}^3$
  - Eye protection:  
Tightly sealed goggles
  - Protection of hands:  
Protective gloves (PVC)
  - Breathing equipment:  
In case of exposure at a rate higher than VME, use respiratory filter device
  - Cloth protection:  
Wear cloths which resist acids
  - General protective and hygienic measures:  
When using the product do not smoke, don't drink, do not eat.  
Keep away from food and beverages (danger of poisoning)
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form :	Fluid		
Colour:	Colourless		
Odour :	Almost inodorous		
Flash point :	< -5	°C	(1013 mbar)
Boiling point :	295 – 315	°C	(1013mbar)
Steam pressure :	0,01	mbar	(20°C)
Density :	1,285	g/cm <sup>3</sup>	(20°C)
Viscosity :	23	mPa.s	(20°C)
Solubility in water :	Miscible	--	(20°C)
PH value :	< 1	--	(20°C)

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## 10. STABILITY AND REACTIVITY

### Stability

- Stable in regular conditions: It's decomposing from 338°C.

### Dangerous reactions

- Strong reactions in contact with alkaline products.
- Heating release with other acids.
- The sulphuric acid is itself a strong oxidant.
- Incompatible with: Iron, alkaline products, earthy-alkaline metals, organic products.

### Decomposition of dangerous products

- Attack of metals produce hydrogen.
  - On the heat, decomposition from sulphur trioxide.
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## 11. TOXICOLOGIC INFORMATIONS

- LD 50 (rat, oral): 2140 mg/Kg /sulphuric acid at 96%)
  - LD 0 (man): about 1 -5 ml of sulphuric acid at 96%
  - Toxicity rank: 2
  - High corrosive for eyes and skin
  - Fog and smog for the eyes and respiratory ways
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## 12. ECOLOGICAL INFORMATIONS

- Rank of danger for waters: Switzerland 2
- Prohibition throwing out to drain pipes or to water's surfaces without previous treatment of toxicity for aquatic fauna due to local modification of pH
- Neutralized with caustic soda
- Limit of harmfulness: LC 50 (fish): 7 – 14 g/l/ LC 50 (bacterium): 2,5 g/l



### 13. DISPOSAL CONSIDERATIONS

- Elimination of products in big quantity by an agreed centre following the local prescriptions.
  - Dilute strongly the small quantities, then neutralize slowly and prudently with a basic solution (for instance with soda at 10%).
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### 14. TRANSPORT INFORMATIONS

- **Internal circulation (ADR/RID):**  
N° ONU: 1830, N° of danger: 80, Rank: 8, Figure: 1 B  
ONU 1830: Sulphuric acid
  - **Shipping intelligence (IMDG):**  
N° ONU: 1830, Rank/Symbol danger: 8 – Packing group: II – Sea pollute: nothing
  - **Air intelligence (ICAO/IATA):**  
N° ONU: 1830 - Rank: 8 - Packing group: II
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### 15. REGULATIONS

- **Symbol: C Corrosive (sulphuric acid)**  
R35: Provoke heavy burn  
S26: In case of contact with eyes, immediately and abundantly clean with water. Consult a doctor  
S30: Never pour water into this product.
  - **Declaration of Swiss Federal Office of Health /OFSP):**  
Toxicity rank: 2  
N°OFSP T 671042
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### 16. OTHER INFORMATIONS

- Above information's are updated conscientiously, but cannot give an absolute guarantee. Moreover, in no case the warranty of the product is appropriate to the given fact.
- Inquiries concerning the laws, regulations, classifications, prescriptions, etc....are referring clearly to Switzerland.
- It is the duty of product receiver to respect own national laws and prescriptions, as well as manipulation, use and product elimination.
- The given facts are not specifications of product.