

* **Sulfuric acid ca. 96%**

Date revised: 31-01-11

1000908

Version: 3 / WORLD

Master No. M-006

Date of printing: 16.08.11

1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name

Sulfuric acid ca. 96%

Use of the substance/mixture

Base chemical with not specially defined use

Details of the supplier of the safety data sheet

Address

Vivochem B.V.

Darwin 5

7609 RL ALMELO

Telephone no. +31 546 577774

Fax no. +31 546 577701

Information provided Dept. Quality

by / telephone

E-mail address kwaliteit@vivochem.nl

Emergency telephone number

National poisoning information center (NVIC) +31 (0) 30 274 8888

2. Hazards identification

Classification of the substance or mixture

Classification in accordance with EC directives 1999/45/EC and 67/548/EEC

C, R35

Label elements

Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC

Hazard symbols



Corrosive

R phrases

35 Causes severe burns.

S phrases

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

60 This material and its container must be disposed of as hazardous waste.

Hazardous component(s) to be indicated on label

contains Sulphuric acid

3. Composition/information on ingredients

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Hazardous ingredients**Sulphuric acid**

CAS No.	7664-93-9	EINECS no.	231-639-5
Concentration		>= 50 %	

Skin Corr. 1A H314

C, R35

4. First aid measures**Description of first aid measures****General information**

Remove affected person from danger area, lay him down. Remove contaminated, soaked clothing immediately and dispose of safely. Irregular breathing/no breathing: artificial respiration. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

Remove the casualty into fresh air and keep him calm. Keep warm, calm and covered up. If the patient is likely to become unconscious, place and transport in stable sideways position. Summon a doctor immediately.

After skin contact

Wash immediately with plenty of water for several minutes. Summon a doctor immediately.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Summon a doctor immediately.

5. Firefighting measures**Extinguishing media****Suitable extinguishing media**

Carbon dioxide, Dry powder, Water spray jet, Alcohol-resistant foam

Non Suitable extinguishing media

Full water jet

Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

Advice for firefighters

Use self-contained breathing apparatus. Acid-resistant protective clothing
Collect contaminated fire-fighting water separately, must not be discharged into the drains.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use breathing apparatus if exposed to vapours/dust/aerosol.

Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). When picked up, treat material as prescribed under heading "Disposal".

7. Handling and storage**Precautions for safe handling**

Keep container tightly closed. Open and handle container with care. Avoid formation of aerosols. When diluting, always stir product into water.

Advice on protection against fire and explosion

No special measures necessary. The product is not combustible.

Conditions for safe storage, including any incompatibilities

Provide acid-resistant floor. Keep only in the original container.

Do not store together with: Alkalies, Metals, Reducing agents

VCI storage category 8B Non-combustible corrosive substances

Keep container tightly closed and dry in a cool, well-ventilated place.

8. Exposure controls/personal protection**Exposure controls****General protective and hygiene measures**

Remove soiled or soaked clothing immediately. Avoid contact with eyes and skin. Keep separated from food-stuffs and feed-stocks. At work do not eat, drink, smoke or take drugs. Wash hands before breaks and after work. Do not inhale gases/vapours/aerosols.

Respiratory protection

Short term: filter apparatus, combination filter B-P3; Self-contained breathing apparatus.

Hand protection

impermeable gloves			
Appropriate Material		viton	
Material thickness	>=	0,7	mm
Penetrating time	>=	480	min

Eye protection

Tightly fitting safety glasses

Body protection

Acid-resistant protective clothing

9. Physical and chemical properties**Information on basic physical and chemical properties**

Form		liquid	
Colour		colourless	
Odour		odourless	
pH			
Value	<	1	
Temperature		20	°C
Melting point			

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Value	appr.	-10	°C
Boiling point			
Value	appr.	310	°C
Vapour pressure			
Value	<	0,0001	hPa
Temperature		20	°C
Density			
Value		1,835	g/cm ³
Temperature		20	°C
Solubility in water			
Remarks		Completely miscible	
Viscosity			
dynamic			
Value		21,6	mPa.s
Temperature		20	°C

10. Stability and reactivity

Conditions to avoid

No decomposition if used as prescribed.

Incompatible materials

Reactions with metals, with evolution of hydrogen. Reacts strongly with water. Addition of water leads to increase in temperature. Reactions with alkalies.

Hazardous decomposition products

sulphurous oxides (SO_x)

Other information

When diluting, add acids to water, never the other way around.

11. Toxicological information

Information on toxicological effects

Strong caustic effect in the mouth and throat and danger of perforation of the esophagus and stomach.

Acute oral toxicity

Species	rat		
LD50		2140	mg/kg

Skin corrosion/irritation

valuation	strongly corrosive
Remarks	Irritating effects on the skin and mucous membrane.

Serious eye damage/eye irritation

valuation	strongly corrosive
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Sensitization

valuation	non-sensitizing
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12. Ecological information

Do not discharge into the drains/surface waters/groundwater. Do not allow to enter soil, waterways or waste water canal. Toxic to aquatic organisms. Harmful effect due to pH shift. Do not release into waterways untreated.

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13. Disposal considerations

Waste treatment methods

Disposal recommendations for the product

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

14. Transport information

Land transport ADR/RID

UN number	1830
Technical name	SULPHURIC ACID
Class	8
Label	8
Packing group	II
Tunnel restriction code	E

Marine transport IMDG/GGVSee

UN number	1830
Technical name	SULPHURIC ACID
Class	8
Packing group	II
Marine Pollutant	no
EmS	F-A, S-B

15. Regulatory information

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

The product is classified and labelled in accordance with EC directives/the relevant national laws.

Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC

Hazard symbols



Corrosive

Hazardous component(s) to be indicated on label

contains Sulphuric acid

R phrases

35 Causes severe burns.

S phrases

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16. Other information

R-phrases listed in chapter 3

35 Causes severe burns.

Hazard statements listed in chapter 3

H314 Causes severe skin burns and eye damage.

Department issuing safety data sheet

Department product safety

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.