

## Sulfuric acid solution 96.25 % calibration solution for determination of viscosity according

Product code: 16353

to DI

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

#### 1.1. Product identifier

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Sulfuric acid solution 96.25 % calibration solution for determination of viscosity according to DI

Substance name:	sulphuric acid
REACH Registration Number:	01-2119458838-20-XXXX
CAS No:	7664-93-9
Index No:	016-020-00-8
EC No:	231-639-5
UFI:	D09F-110T-100U-5PU7

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Laboratory chemicals Industrial uses: Uses of substances as such or in preparations at industrial sites Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

## Uses advised against

Do not use for private purposes (household).

## 1.3. Details of the supplier of the safety data sheet

Company name:	AnalytiChem GmbH ACD	
Street: Place:	Stempelstraße 6 D-47167 Duisburg	
Telephone: E-mail:	0203/5194-0 info@analytichem.de	Telefax: 0203/5194-290
Contact person: E-mail: Internet: Responsible Department:	Abteilung Produktsicherheit produktsicherheit@analytichem.de www.analytichem.de Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
<u>1.4. Emergency telephone</u> number:	For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)	

## Further Information

No data available

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

# Regulation (EC) No 1272/2008

Signal word: Danger



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Pictograms:				
Hazard statements	·			
H290	May be corrosive to metals.			
H314	Causes severe skin burns and eye damage.			
Precautionary statemer	its			
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.			
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.			
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P308	IF exposed or concerned:			
P310	Immediately call a POISON CENTER/doctor.			
2.3. Other hazards				

No data available

#### **SECTION 3: Composition/information on ingredients**

## 3.1. Substances

Sum formula:	H2SO4
Molecular weight:	98,08 g/mol

## **Relevant ingredients**

CAS No	Chemical name			Quantity
	EC No Index No REACH No			
Classification (Regulation (EC) No 1272/2008)				
7664-93-9	sulphuric acid			95 - < 100 %
	231-639-5 016-020-00-8 01-2119458838-20-XXXX			
Met. Corr. 1, Skin Corr. 1A, Eye Dam. 1; H290 H314 H318				

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
7664-93-9	231-639-5	sulphuric acid	95 - < 100 %
oral: LD50 = 2140 mg/kg Skin Corr. 1A; H314: >= 15 - 100 Skin Irrit. 2; H315: >= 5 - < 15 Eye Irrit. 2; H319: >= 5 - < 15			

#### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

## **General information**

First aider: Pay attention to self-protection!

#### After inhalation

Provide fresh air.



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Call a physician immediately.

#### After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

Call a physician immediately.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

## 4.2. Most important symptoms and effects, both acute and delayed

Risk of serious damage to eyes.
Causes burns.
Irritant
Cough
Dyspnoea
Vomiting
Gastric perforation
Nausea
Abdominal pain

#### 4.3. Indication of any immediate medical attention and special treatment needed

No data available

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

#### Unsuitable extinguishing media

no restriction

## 5.2. Special hazards arising from the substance or mixture

Non-combustible liquids Hazardous combustion products In case of fire may be liberated: Sulphur oxides

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Avoid contact with skin, eyes and clothes.

## Additional information

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

## General advice

Corrosive to metals.



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For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

## For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

## 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

## 6.3. Methods and material for containment and cleaning up

## For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers). Collect in closed and suitable containers for disposal. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

## 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

## Advice on safe handling

Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Use personal protection equipment. Use extractor hood (laboratory). Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

## Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

#### Further information on handling

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. Take off immediately all contaminated clothing and wash it before reuse.

## 7.2. Conditions for safe storage, including any incompatibilities



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Keep c	ents for storage rooms and vessels ontainer tightly closed. able container/equipment material: Metal					
Further information on storage conditions Corrosive to metals. The product develops hydrogen in an aqueous solution in contact with metals.						
7.3. Specific e	end use(s)					
Laborat	tory chemicals					
SECTION 8:	Exposure controls/personal protection					
8.1. Control pa	arameters					
Occupational	exposure limits					
CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
7664-93-9	Sulphuric acid - 0.05 TWA (8 h)					
DNEL/DMEL	values	•	• •			<u> </u>
CAS No	Substance					
DNEL type	_	Expo	sure route	Effect	Val	ue
7664-93-9	sulphuric acid					
Worker DNEL,	long-term	inhal	ation	local	0,0	5 mg/m³
Worker DNEL, acute     inhalation     local     0,1 mg/m³			mg/m³			
PNEC values	·					
CAS No	Substance					
Environmental	compartment				Valu	le
7664-93-9	sulphuric acid					
Freshwater					0,00	)3 mg/l
Marine water					0 m	g/l
Freshwater sediment   0,002 mg/kg				)2 mg/kg		
Marine sedime	Marine sediment 0,002 mg/kg				02 mg/kg	
Micro-organism	ns in sewage treatment plants (STP)				8,8 1	mg/l

## 8.2. Exposure controls

## Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Suitable eye protection: goggles Face protection shield

## Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the



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supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation KCL 890 Vitoject® Recommended material: FKM (fluoro rubber) 0,7 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation KCL 720 Camapren® Recommended material: CR (polychloroprene, chloroprene rubber) 0,65 mm Wearing time with occasional contact (splashes): > 60 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

#### Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing. Wash hands before breaks and after work.

## Respiratory protection

Respiratory protection necessary at: aerosol or mist formation Filtering device with filter or ventilator filtering device of type: ABEK

## Environmental exposure controls

Do not allow to enter into surface water or drains.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	colourless	
Odour:	odourless	
Odour threshold:	No data available	
Melting point/freezing point:		-20 °C
Boiling point or initial boiling point and boiling range:		335 °C
Flammability:		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		Х
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value (at 20 °C):		0,3 (49 g/l)
Viscosity / kinematic:		No data available
Water solubility:		very soluble (Heat)
Solubility in other solvents		
No data available		
Dissolution rate:		No data available



It o Di           Revision date: 13.02.2024         Product code: 16353         Page 7 of 12           Partition coefficient n-octanol/water:         No data available         No data available           Dispersion stability:         No data available         0.0001 hPa           (at 50 °C)         0.0004 hPa         0.0001 hPa           (at 50 °C)         0.0004 hPa         0.0001 hPa           (at 50 °C)         0.0004 hPa         0.0004 hPa           (at 50 °C)         No data available         0.0004 hPa           (at 50 °C)         No data available         0.0004 hPa           (at 50 °C)         No data available         0.0004 hPa           Buik density:         No data available         0.0004 hPa           Relative vapour density:         No data available         0.0004 hPa           Particle characteristics:         No data available         0.0004 hPa           Solid:         No data available	Sulfuric acid solution 96.25 % c	alibration solution for determination of viscosit	ty according	
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	Flow time:	No data available		
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## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Corrosive to metals. Oxidising agent, strong

## 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

## 10.3. Possibility of hazardous reactions

Violent reaction with: Water, Alkali metals, Ammonia aldehydes, Alkaline earth metal, Acids Alkali (lye), Metal, Phosphorus oxides, Combustible substance Solvent, Aniline, permanganates, e.g. potassium permanganate Peroxides, Amines, Carbide



Sulfuric acid solution 96.25	% calibration solution for determination of to DI	viscosity according
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peroxides, for example hydrogen pe	roxide , Nitriles	
<u>10.4. Conditions to avoid</u> No data available		
10.5. Incompatible materials Metal The product develops hydrogen in a Cellulose	n aqueous solution in contact with metals.	
10.6. Hazardous decomposition products In case of fire may be liberated: SECTION 5: Firefighting measures		
Further information No data available		
SECTION 11: Toxicological information	on	
11.1. Information on hazard classes as de	fined in Regulation (EC) No 1272/2008	
Toxicocinetics, metabolism and distril No data available	bution	
Acute toxicity Based on available data, the classifi If swallowed danger of perforation of Irritation to respiratory tract (Cough,	f the esophagus and the stomach (strong corrosive effect	cts).

CAS No Chemical name Exposure route Dose Species Source Method 7664-93-9 sulphuric acid LD50 Rat Am Ind Hyg Assoc J. The study was oral 2140 1969 Sep-Oct; 30(5): performed as part of a mg/kg

### Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Risk of serious damage to eyes.

## Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

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.

## Information on likely routes of exposure

## No data available

## Specific effects in experiment on an animal

No data available

## Additional information on tests

No data available

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Practical experience No data available <u>11.2. Information on other hazards</u> Endocrine disrupting properties No data available Other information			
No data available Further information Risk of serious damage to eyes. Causes burns. Irritant Cough Dyspnoea Vomiting Gastric perforation Nausea Abdominal pain			

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method		
7664-93-9	sulphuric acid								
	Acute algae toxicity	ErC50 mg/l	> 100		Desmodesmus subspicatus	Study report (2009)	OECD Guideline 201		
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna	Study report (2009)	OECD Guideline 202		
	Fish toxicity	NOEC mg/l	0,025	65 d	Jordanella floridae	Water Research Vol. 11, 612 - 626, 1977	Groups of sexually mature flagfish		

## 12.2. Persistence and degradability

No data available

## 12.3. Bioaccumulative potential

No data available

## 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

## 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

## 12.7. Other adverse effects

Avoid release to the environment.

## Further information

Do not allow to enter into surface water or drains.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods



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# Disposal recommendations

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Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

Do not mix with other wastes.

Do not allow to enter into surface water or drains.

#### **Contaminated packaging**

Handle contaminated packages in the same way as the substance itself. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### **SECTION 14: Transport information**

Land transport (ADR/RID)		
14.1. UN number or ID number:	UN 1830	
14.2. UN proper shipping name:	SULPHURIC ACID	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
Hazard label:	8	
Classification code:	C1	
Limited quantity:	1 L	
Excepted quantity:	E2	
Transport category:	2	
Hazard No:	80	
Tunnel restriction code:	E	
Inland waterways transport (ADN)		
14.1. UN number or ID number:	UN 1830	
14.2. UN proper shipping name:	Sulphuric acid	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
Hazard label:	8	
Classification code:	C1	
Limited quantity:	1 L	
Excepted quantity:	E2	
Marine transport (IMDG)		
14.1. UN number or ID number:	UN 1830	
14.2. UN proper shipping name:	Sulphuric acid	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
Hazard label:	8	
Special Provisions:	-	
Limited quantity:	1 L	
Excepted quantity:	E2	
EmS:	F-A, S-B	
Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	UN 1830	
14.2. UN proper shipping name:	SULPHURIC ACID	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
Hazard label:	8	
Limited quantity Passenger:	0.5 L	
Passenger LQ:	Y840	
Excepted quantity:	E2	
IATA-packing instructions - Passenger:		851



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IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	1 L 855 30 L						
14.5. Environmental hazards							
ENVIRONMENTALLY HAZARDOUS: No							
14.6. Special precautions for user Warning: strongly corrosive.							
14.7. Maritime transport in bulk according to IMO instruments not applicable							
SECTION 15: Regulatory information							
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture							
National regulatory information							
Employment restrictions:	Observe restrictions to employment for juveniles accord work protection guideline' (94/33/EC).	ording to the 'juvenile					
Water hazard class (D):	1 - slightly hazardous to water						
SECTION 16: Other information							
Changes This data sheet contains changes fro Abbreviations and acronyms Met. Corr: Substance or mixture corre	m the previous version in section(s): 1,12. osive to metals						

Met. Corr: Substance or mixture corrosive to metals

Skin Corr: Skin corrosion

Eye Dam: Eye damage

ADR: Accord européen sur le transport 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

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

## Relevant H and EUH statements (number and full text)

- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.

#### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be



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according to Regulation (EC) No 1907/2006

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transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The receiver of our product is singularly responsible for adhering to existing laws and regulations.