



# Sulphuric acid 0.05M

## Volumetric Solution

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) as amended  
Date of issue: 22/06/2015 Revision date: 17/12/2018 Version: 1.2

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

### 1.1. Product identifier

Product form : Mixture  
Product name : Sulphuric acid 0.05M  
Volumetric Solution  
Product code : VL313

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use, Industrial use  
Use of the substance/mixture : Certified reference material for laboratory use  
Function or use category : Laboratory chemicals

#### 1.2.2. Uses advised against

No additional information available

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

#### Spectracer UK Ltd.

Second Floor,  
27 Gloucester Place,  
London,  
W1U 8HU,  
United Kingdom.

Tel: +44 (0) 207 193 9114  
Fax: +44 (0) 203 432 4686  
Email: [contact@spectracer.co.uk](mailto:contact@spectracer.co.uk)  
Web: [www.spectracer.com](http://www.spectracer.com)

### 1.4. Emergency telephone number

Emergency number : Tel: +44(0)1933 445260 Option 1. Language: English only.  
For Chemical Emergencies Only  
Llewellyn (Safety Advisors) Europe Ltd

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964	
United Kingdom	National Poisons Information Service (NHS Direct)	<a href="http://www.npis.org">http://www.npis.org</a>	111 (England & Wales only) or 112 (EU) or 08454 24 24 24 (Scotland)	

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

### 2.3. Other hazards

No additional information available

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

##### 3.1. Substances

Not applicable

##### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sulphuric acid	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8	0,1 - 0,5	Met. Corr. 1, H290 Skin Corr. 1A, H314

##### Specific concentration limits:

Name	Product identifier	Specific concentration limits
sulphuric acid	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8	( 5 =<C < 15) Eye Irrit. 2, H319 ( 5 =<C < 15) Skin Irrit. 2, H315 ( C >= 15) Skin Corr. 1A, H314

Full text of H-statements: see section 16

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Wash skin with plenty of water.  
First-aid measures after eye contact : Rinse eyes with water as a precaution.  
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

Treat symptomatically.

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

##### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

#### SECTION 6: Accidental release measures

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

###### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

###### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

##### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

##### 6.4. Reference to other sections

For further information refer to section 13.

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#### SECTION 7: Handling and storage

##### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store in a well-ventilated place. Keep cool.

##### 7.3. Specific end use(s)

No additional information available

#### SECTION 8: Exposure controls/personal protection

##### 8.1. Control parameters

sulphuric acid (7664-93-9)		
EU	Local name	Sulphuric acid (mist)
EU	IOELV TWA (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup>
EU	Regulatory reference	COMMISSION DIRECTIVE 2009/161/EU
Austria	Local name	Schwefelsäure
Austria	MAK (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Austria	MAK Short time value (mg/m <sup>3</sup> )	0,2 mg/m <sup>3</sup>
Austria	Regulatory reference	BGBI. II Nr. 186/2015
Belgium	Local name	Acide sulfurique (brume) # Zwavelzuur (nevel)
Belgium	Limit value (mg/m <sup>3</sup> )	0,2 mg/m <sup>3</sup>
Belgium	Short time value (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Belgium	Remark (BE)	C: la mention "C" signifie que l'agent en question relève du champ d'application de l'arrêté royal du 2 décembre 1993 concernant la protection des travailleurs contre les risques liés à l'exposition à des agents cancérigènes et mutagènes au travail. # C: de vermelding "C" betekent dat het betrokken agens valt onder het toepassingsgebied van het koninklijk besluit van 2 december 1993 betreffende de bescherming van de werknemers tegen de risico's van blootstelling aan kankerverwekkende en mutagene agentia op het werk.
Belgium	Regulatory reference	Koninklijk besluit/Arrêté royal 11/03/2002
Bulgaria	Local name	Сярна киселина
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup> аерозоли
Bulgaria	Notes	• (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност); (2) При избора на подходящ метод за наблюдение на експозицията следва да се вземат под внимание потенциалните ограничения и взаимодействия, които могат да възникнат в присъствието на други серни съединения; (3) Аерозолът се определя като вдишвана част
Bulgaria	Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа
Croatia	Local name	Sumporna kiselina
Croatia	GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup>
Croatia	Naznake (HR)	C (nagrizajuće); EU*** (naznaka da se radi o tvarima za koje su utvrđene indikativne granične vrijednosti izloženosti prema Direktivi 2009/161/ EU (treća lista))
Croatia	Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN, br. 75/13)
Czech Republic	Local name	Kyselina sírová, jako SO
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>

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Czech Republic	Remark (CZ)	I (dráždí sliznice (oči, dýchací cesty) resp. kúži)
Czech Republic	Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zpracovány změny č. 93/2012 Sb., 9/2013 Sb.)
Denmark	Local name	Svovlsyre
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup>
Denmark	Regulatory reference	BEK nr 655 af 31/05/2018
Estonia	Local name	Väävelhape, udu
Estonia	OEL TWA (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup>
Estonia	Regulatory reference	Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293
Finland	Local name	Rikkihappo
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min)	0,1 mg/m <sup>3</sup>
Finland	Huomautus (FI)	torakaalijae
Finland	Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveysministeriö)
France	Local name	Acide sulfurique
France	VME (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup> (fraction thoracique)
France	VLE (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
France	Note (FR)	VME réglementaire indicative; VLE recommandée/admise
France	Regulatory reference	Arrêté du 30 juin 2004 modifié et circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany	TRGS 900 Local name	Schwefelsäure
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (E)
Germany	TRGS 900 Limitation of exposure peaks	1(l)
Germany	TRGS 900 Remark	DFG;EU;Y
Germany	TRGS 900 Regulatory reference	TRGS900
Greece	Local name	Θειικό οξύ (ομίχλη)
Greece	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Greece	Regulatory reference	Π.Δ. 12/2012
Hungary	Local name	KÉNSAV
Hungary	AK-érték	0,05 mg/m <sup>3</sup> torakális frakció
Hungary	Megjegyzések (HU)	m (maró hatású anyag, amely felmarja a bőrt, nyálkahártyát, szemet vagy mindhármát); l. (HELYILEG IRRITÁLÓ ANYAGOK), EU3 (2009/161 /EK irányelvben közölt érték)
Hungary	Regulatory reference	25/2000. (IX. 30.) EüM–SZCSM együttes rendelet a munkahelyek kémiai biztonságáról
Ireland	Local name	Sulphuric acid
Ireland	OEL (8 hours ref) (ppm)	0,05 ppm
Ireland	Notes (IE)	IOELV (Indicative Occupational Exposure Limit Values)
Ireland	Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018
Italy	Local name	Acido solforico (nebulizzazione)
Italy	OEL TWA (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup>
Italy	Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia	Local name	Sērskābe (migla, kas tiek definēta kā torakālā frakcija)
Latvia	OEL TWA (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup>

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Latvia	Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325 (Grozījumi Ministru kabineta 2011.gada 1.februārī noteikumiem Nr.92)
Lithuania	Local name	Sieros rūgštis (rūkas)
Lithuania	IPRV (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup>
Lithuania	TPRV (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Lithuania	Remark (LT)	Renkantis tinkamą poveikio stebėsenos modelį turi būti atsižvelgiama į galimus apribojimus ir trukdžius, galinčius kilti, kai esama kitų sieros junginių. Rūkas (migla) apibrėžiamas kaip įkvepiama dalis.
Lithuania	Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011
Luxembourg	Local name	Acide sulfurique (brume)
Luxembourg	OEL STEL (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup> La brume est définie comme la fraction thoracique
Luxembourg	Regulatory reference	Mémorial A N° 684 de 2018
Malta	Local name	Sulphuric acid
Malta	OEL TWA (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup> (mist # ċpar)
Malta	Regulatory reference	S.L.424.24 (L.N. 53 of 2012)
Netherlands	Local name	Zwavelzuur
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup> (nevel), gedefinieerd als de thoracale fractie
Netherlands	Grenswaarde TGG 8H (ppm)	0,012 ppm (Zwavelzuur (nevel), gedefinieerd als de thoracale fractie; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Regulatory reference	Arbeidsomstandighedenregeling 2018
Poland	Local name	Kwas siarkowy(VI)
Poland	NDS (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup> frakcja torakalna
Poland	Remark (PL)	Frakcja torakalna – frakcja aerozolu wnikająca do dróg oddechowych w obrębie klatki piersiowej, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze tchawiczno-oskrzelowym i obszarze wymiany gazowej.
Poland	Regulatory reference	Dz. U. 2017 poz. 1348
Portugal	Local name	Ácido sulfúrico
Portugal	OEL TWA (mg/m <sup>3</sup> )	0,2 mg/m <sup>3</sup> T (Fração torácica)
Portugal	Regulatory reference	Norma Portuguesa NP 1796:2014
Romania	Local name	Acid sulfuric și anhidrida sulfuroasa
Romania	OEL TWA (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Romania	OEL STEL (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Romania	Regulatory reference	Legea 319/2006 privind Securitatea și sănătatea în muncă și HG nr. 1/2012 de modificare și completare a HG 1218/2006
Slovakia	Local name	Kyselina sírová (hmla)
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup>
Slovakia	Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (Zmena: 300/2007 Z.z.; Zmena: 471/2011 Z.z.)
Slovenia	Local name	žveplova kislina - megla in žveplov trioksid (merjeno kot žveplova kislina)
Slovenia	OEL TWA (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup>
Slovenia	Regulatory reference	Uradni list RS, št. 38/2015 z dne 4.6.2015
Spain	Local name	Ácido sulfúrico
Spain	VLA-ED (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup> niebla

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Spain	Notes	az (Al seleccionar un método adecuado de control de la exposición, deben tomarse en consideración posibles limitaciones e interferencias que pueden surgir en presencia de otros compuestos de azufre), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo), s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: <a href="http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas">http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas</a> Base de datos de productos fitosanitarios <a href="http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf">http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf</a> ), d (Véase UNE EN 481: Atmósferas en los puestos de trabajo. Definición de las fracciones por el tamaño de las partículas para la medición de aerosoles).
Spain	Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2018. INSHT
Sweden	Local name	Svavelsyra
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> inhalerbar fraktion
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	0,2 mg/m <sup>3</sup> inhalerbar fraktion
Sweden	Anmärkning (SE)	C (Ämnet är cancerframkallande. Risk för cancer finns även vid annan exponering än via inandning. För vissa cancerframkallande ämnen som inte har gränsvärden gäller förbud eller tillståndskrav enligt föreskrifterna om kemiska arbetsmiljörisker); V (Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas); 3 (Med inhalerbar fraktion menas den mängd partiklar, av totalmängden partiklar i luften, som man inandas genom näsa och mun); 46 (Aerosoler av svavelsyra har i studier visats vara cancerframkallande)
Sweden	Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom	Local name	Sulphuric acid
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup> mist
United Kingdom	Remark (WEL)	The mist is defined as the thoracic fraction
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE
Iceland	Local name	Brennisteinssýra (úði)
Iceland	OEL (8 hours ref) (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup>
Iceland	Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
Russian Federation	Remark (RU)	2 класс опасности - высокоопасное; а (аэрозоль); + (соединения, при работе с которыми требуется специальная защита кожи и глаз; символ проставлен вслед за наименованием вещества)
Norway	Local name	Svovelsyre aerosol
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> Torakal fraksjon
Norway	Merknader (NO)	K (Kjemikalier som skal betraktes som kreftfremkallende); E (EU har en veiledende grenseverdi for stoffet)
Norway	Regulatory reference	FOR-2018-08-21-1255
Switzerland	Local name	Schwefelsäure
Switzerland	MAK (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (e)
Switzerland	KZGW (mg/m <sup>3</sup> )	0,2 mg/m <sup>3</sup> (e)
Switzerland	Remark	Kritische Toxizität: Lunge; Messmethoden: IFA, NIOSH, OSHA; Notationen: SS <sub>C</sub> , C1 <sub>A</sub> <sup>#</sup> - Kein erhöhtes Krebsrisiko bei Einhalten des MAK-Werts

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Switzerland	Regulatory reference	SUVA - Grenzwerte am Arbeitsplatz 2018
Turkey	Local name	Sülfürik asit
Turkey	OEL TWA (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup> (buharı)
Turkey	Comments	10) Uygun maruziyet izleme yöntemi seçilirken, ortamda bulunabilecek diğer sülfür bileşiklerinin olası sınırlamaları ve etkileşimleri de dikkate alınacaktır; 11) Buhar : Gırtlığı geçen ve havanın iletiği kanallara (soluk borusu, bifürkasyonlar) ve ciğerin solunum ile ilgili bölgelerine (toraks) nüfuz eden ortalama 10 µm çapındaki solunabilir partiküller olarak tanımlanır
Turkey	Regulatory reference	12 Ağustos 2013 Tarihli ve 28733 Sayılı Resmî Gazete
USA - ACGIH	Local name	Sulfuric acid
USA - ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0,2 mg/m <sup>3</sup>
USA - ACGIH	Remark (ACGIH)	Pulm func
USA - ACGIH	Regulatory reference	ACGIH 2018
USA - OSHA	Local name	Sulfuric acid
USA - OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>

## 8.2. Exposure controls

### Appropriate engineering controls:

Ensure good ventilation of the work station.

### Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Safety glasses. Protective clothing.

### Hand protection:

Protective gloves

### Eye protection:

Safety glasses

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

### Personal protective equipment symbol(s):



### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable

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Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Miscible with water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

#### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

sulphuric acid (7664-93-9)	
LD50 oral rat	2140 mg/kg bodyweight (Test data of the pure substance; Rat; Equivalent or similar to OECD 401; Experimental value)

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

sulphuric acid (7664-93-9)	
Additional information	Strong inorganic acid mists containing sulfuric acid are carcinogenic to humans

Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified



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Aspiration hazard : Not classified

#### SECTION 12: Ecological information

##### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.  
 Acute aquatic toxicity : Not classified  
 Chronic aquatic toxicity : Not classified

sulphuric acid (7664-93-9)	
LC50 fish 1	> mg/l >16 - <28,LC50; 96 h; Lepomis macrochirus; Static system; Fresh water
EC50 Daphnia 1	> 100 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 1	> 100 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Experimental value)

##### 12.2. Persistence and degradability

sulphuric acid (7664-93-9)	
Persistence and degradability	Biodegradability: Not applicable. Hydrolysis in water. Biodegradability in soil: Not applicable. No (test)data available on mobility of the substance.
ThOD	Not applicable

##### 12.3. Bioaccumulative potential

sulphuric acid (7664-93-9)	
Bioaccumulative potential	Bioaccumulation: Not applicable.

##### 12.4. Mobility in soil

No additional information available

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

No additional information available

##### 12.6. Other adverse effects

No additional information available

#### SECTION 13: Disposal considerations

##### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
 Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
 Ecology - waste materials : Avoid release to the environment.  
 European List of Waste (LoW) code : 16 05 06\* - laboratory chemicals consisting of or containing dangerous substances including mixtures of laboratory chemicals

#### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

# Sulphuric acid 0.05M

## Volumetric Solution

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) as amended

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#### 14.6. Special precautions for user

##### - Overland transport

Not regulated

##### - Transport by sea

Not regulated

##### - Air transport

Not regulated

##### - Inland waterway transport

Not regulated

##### - Rail transport

Not regulated

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	sulphuric acid
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	sulphuric acid

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

##### 15.1.2. National regulations

###### Germany

Reference to AwSV : Water hazard class (WGK) nwg, Non-hazardous to water (Classification according to AwSV, Annex 1)

Storage class (LGK) : LGK 12 - Non-combustible liquids

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

###### Netherlands

SZW-lijst van kankerverwekkende stoffen : sulphuric acid is listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

Full text of H- and EUH-statements:

# Sulphuric acid 0.05M

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Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.

SDS EU Mod H F (REACH ANNEX II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*