

Safety data sheet according to 1907/2006/EC, Article 31

Page 1/8

Printing date 07.02.2022

Revision: 07.02.2022

Tel. (+34) 937 489 400

Version number 8.05 (replaces version 8.04)

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

· 1.1 Product identifier

Trade name: Sulphuric acid 0.5 mol/l (1N)

· Article number: 1059

· Application of the substance / the mixture

Chemical analytics Laboratory chemicals

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès (Barcelona)

Fax. (+34) 937 489 401 e-mail: product.safety@panreac.com

- · Further information obtainable from: email: product.safety@panreac.com
- 1.4 Emergency telephone number:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

The product is not classified, according to the CLP regulation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Additional information:

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

EUH210 Safety data sheet available on request.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures Aqueous solution

(Contd. on page 2)

Page 2/8

Printing date 07.02.2022 Revision: 07.02.2022

Version number 8.05 (replaces version 8.04)

Trade name: Sulphuric acid 0,5 mol/l (1N)

· **Description**: ageous solution

(Contd. of page 1)

≥0.3-<5%

Dangerous components:

CAS: 7664-93-9

XXXX

EINECS: 231-639-5 Reg.nr.: 01-2119458838-20-

Met 20- H3

sulphuric acid 95 - 97% Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1,

H318

Specific concentration limits: Skin Corr. 1A; H314: C ≥15 % Skin Irrit. 2; H315: 5 % ≤ C < 15 % Eve Dam. 1: H318: C ≥ 15 %

Eye Dam. 1; H318: C ≥ 15 % Eye Irrit. 2; H319: 5 % ≤ C < 15 % Met. Corr.1; H290: C ≥ 0.3 %

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

· After eve contact:

Rinse opened eye for several minutes under running water.

Seek medical treatment.

· After swallowing:

Rinse out mouth.

make victim drink water (maximum of 2 drinking glasses)

If symptoms persist consult doctor.

· 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Sulphur oxides (SOx)

Non-combustible.

Ambient fire may liberate hazardous vapeurs.

- 5.3 Advice for firefighters
- · **Protective equipment:** Wear self-contained respiratory protective device.
- · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Contain escaping vapours with water.

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and emergency procedures Avoid substance contact.

Do not inhale steams/aerosols.

• 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

(Contd. on page 3)

Page 3/8

Printing date 07.02.2022 Revision: 07.02.2022

Version number 8.05 (replaces version 8.04)

Trade name: Sulphuric acid 0,5 mol/l (1N)

(Contd. of page 2)

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Clean up affected area.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling No special precautions are necessary if used correctly.
- Information about fire and explosion protection: The product is not flammable.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container sealed.
- Recommended storage temperature: Room Temperature
- · Storage class: 8 B
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

7664-93-9 sulphuric acid 95 - 97%

WEL Long-term value: 0.05* mg/m³ *mist: defined as thoracic fraction

· DNELs

7664-93-9 sulphuric acid 95 - 97%

Inhalative | Acute - local effects, worker 0.1 mg/m3 Long-term - local effects, worker 0.05 mg/m3

· PNECs

7664-93-9 sulphuric acid 95 - 97%

Aquatic compartment - freshwater	0.0025 mg/L
Aquatic compartment - marine water	0.00025 mg/L
Aquatic compartment - sediment in freshwater	0.002 mg/kg
Aquatic compartment - sediment in marine water	0.002 mg/kg
Sewage treatment plant	8.8 mg/L

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

· Respiratory protection:

Filter P1

Use suitable respiratory protective device only when aerosol or mist is formed.

· Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- ----

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 4)

Page 4/8

Printing date 07.02.2022 Revision: 07.02.2022

Version number 8.05 (replaces version 8.04)

Trade name: Sulphuric acid 0,5 mol/l (1N)

Material of gloves

(Contd. of page 3)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level ≥ 480 min

As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level \geq 480 min

Eye/face protection Safety glasses

· Body protection:

Protective work clothing

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazourdous substances handled.

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information

Physical state
Colour:
Odour:
Odourless
Odour threshold:
Melting point/freezing point:

Fluid

Colourless

Odourless

Not determined.

Undetermined.

Boiling point or initial boiling point and boiling

range Undetermined. Flammability Not applicable.

· Lower and upper explosion limit

Lower: Not determined.
 Upper: Not determined.
 Flash point: Not applicable.
 Decomposition temperature: Not determined.
 pH Not determined.

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

· Solubility

• water: Not determined.

Partition coefficient n-octanol/water (log value) Not determined.
 Vapour pressure: Not determined.

Density and/or relative density

Density: Not determined.
Relative density Not determined.
Vapour density Not determined.

- · 9.2 Other information
- · Appearance:

· Form: Fluid

(Contd. on page 5)

Safety data sheet according to 1907/2006/EC, Article 31

Page 5/8

Printing date 07.02.2022 Revision: 07.02.2022

Version number 8.05 (replaces version 8.04)

Trade name: Sulphuric acid 0,5 mol/l (1N)

(Contd. of page 4)

Important information on protection of health and environment, and on safety.

• **Auto-ignition temperature:** Product is not selfigniting.

• Explosive properties: Product does not present an explosion hazard.

Solvent content:

• **Water:** 95.1 %

· Change in condition

• Evaporation rate Not determined.

Information with regard to physical hazard classes

· Explosives	Void
Flammable gases	Void
Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit	
flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: In the event of fire: See chapter 5

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:

Quantitative data on the toxicological effect of this product are not available.

· Compone	nts	Туре	Value	Species	
7664-93-9	sulphurio	acid 95 - 97%			
Oral	LD50	2,140 mg/kg (rat)			
Inhalative	LC50/2 h	510 mg/l (rat)			

- · Skin corrosion/irritation Irritant effect
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · After inhalation: No irritant effect.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

(Contd. on page 6)

Safety data sheet according to 1907/2006/EC, Article 31

Page 6/8

Printing date 07.02.2022 Revision: 07.02.2022

Version number 8.05 (replaces version 8.04)

Trade name: Sulphuric acid 0,5 mol/l (1N)

(Contd. of page 5)

- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity 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.
- 11.2 Information on other hazards
- Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.

· Type of te	st Effective concentration Method Assessment					
7664-93-9 sulphuric acid 95 - 97%						
EC50	2,500 mg/l (Bakterien)					
	1.2 mg/l (fish)					
EC50/96 h	10 mg/l (Aquatic plants)					
EC50/24 h	29 mg/l (daphnia magna)					
EC50/96 h	1.2 mg/l (fish) 10 mg/l (Aquatic plants)					

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Chemicals must be disposed of in compliance with the respective national regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR, IMDG, IATA UN2796

· 14.2 UN proper shipping name

· ADR, IMDG, IATA SULPHURIC ACID

(Contd. on page 7)

Page 7/8

Printing date 07.02.2022

Revision: 07.02.2022

Version number 8.05 (replaces version 8.04)

Trade name: Sulphuric acid 0,5 mol/l (1N)

(Contd. of page 6) · 14.3 Transport hazard class(es) · ADR · Class 8 (C1) Corrosive substances. · Label · IMDG, IATA 8 Corrosive substances. · Class · Label · 14.4 Packing group · ADR, IMDG, IATA Ш · 14.5 Environmental hazards: Not applicable. · 14.6 Special precautions for user Warning: Corrosive substances. · Hazard identification number (Kemler code): 80 · EMS Number: F-A,S-B Acids · Segregation groups Stowage Category В · 14.7 Maritime transport in bulk according to **IMO** instruments Not applicable. · Transport/Additional information: Not dangerous according to the above specifications. · ADR Limited quantities (LQ) 1L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · Transport category 2 · Tunnel restriction code Ε · IMDG · Limited quantities (LQ) 1L · Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · UN "Model Regulation": UN 2796 SULPHURIC ACID, 8, II

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.

(Contd. on page 8)

Page 8/8

Printing date 07.02.2022 Revision: 07.02.2022

Version number 8.05 (replaces version 8.04)

Trade name: Sulphuric acid 0,5 mol/l (1N)

(Contd. of page 7)

- · National regulations:
- · Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society)

DNEL: Derived No-Effect Level (RÈACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative

Met. Corr.1: Corrosive to metals – Category 1 Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

* Data compared to the previous version altered.

GB