

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

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Printing date 01.06.2023

Revision: 01.06.2023

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Version number 24.13 (replaces version 24.12)

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

- · 1.1 Product identifier
- · Trade name: Sulphuric acid 25%
- · Article number: 2448
- · Registration number A registration number is not available for this substance as it is a mixture.
- · UFI: QVC0-R0JN-D00A-30R2
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture 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)

· 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

Met. Corr.1 H290 May be corrosive to metals.

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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Trade name: Sulphuric acid 25%

· Hazard pictograms



GHS05

- · Signal word Danger
- · Hazard-determining components of labelling:

sulphuric acid 95 - 97%

· Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

· Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Additional information:

Product contains: Restricted explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 5 (1) and (3).

- 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
- · Description: aqeous solution

· Dangerous components:				
CAS: 7664-93-9	sulphuric acid 95 - 97% ≥15			
EINECS: 231-639-5 Index number: 016-020-00-8	Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318			
Reg.nr.: 01-2119458838-20-XXXX	Specific concentration limits: Skin Corr. 1A; H314: C ≥ 15 %			
	Skin Irrit. 2; H315: 5 % ≤ 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.

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SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: Involve doctor immediately.
- · After inhalation:

Supply fresh air.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Call a doctor immediately.

Clean with water and soap. If possible, also wash with polyethylene glycol 400.

Immediately wash with water and soap and rinse thoroughly.

Immediately remove any clothing soiled by the product.

- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Call a doctor immediately.
- 4.2 Most important symptoms and effects, both acute and delayed

Breathing difficulty

Coughing

Nausea

Gastric or intestinal disorders

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.

- 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

Wear protective equipment. Keep unprotected persons away.

Avoid substance contact.

Do not inhale steams/aerosols.

- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:

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

Use neutralising agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

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.

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See Section 13 for disposal information.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

When diluting always pour product into water and not vice versa.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · 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: Provide acid-resistant floor.
- · Information about storage in one common storage facility:

Store away from foodstuffs and feedstuffs

Store away from metals.

Further information about storage conditions:

Keep container tightly sealed.

Open receptacle only under localised extractor facilities.

Store under lock and key and with access restricted to technical experts or their assistants only.

- 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%

IOELV Long-term value: 0.05 mg/m³

· 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 section 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

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Trade name: Garphane acid 2070

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· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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

- Recommended filter device for short term use: Combination filter B-P3
- · Hand protection



Protective gloves

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

· Material of gloves

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 ≥ 480 min

Eye/face protection



Gauze goggles

· Body protection:

Use protective suit.

Acid resistant protective clothing

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.

 \cdot Boiling point or initial boiling point and boiling

range Undetermined. Flammability Not applicable.

· Lower and upper explosion limit

· **Lower:** Not determined.

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· Upper: Not determined. · Flash point: Not applicable. Decomposition temperature: Not determined.

· pH at 20 °C <1

· Viscosity:

· Kinematic viscosity Not determined. · Dynamic: Not determined.

· Solubility

· water: Fully miscible. · Partition coefficient n-octanol/water (log value) Not determined.

· Vapour pressure at 20 °C: >0 hPa

· Density and/or relative density

· Density at 20 °C: ~1.25 g/cm3 · Relative density Not determined. · Vapour density Not determined.

· 9.2 Other information

· Appearance:

· Form: Fluid

· Important information on protection of health

and environment, and on safety.

Ignition temperature: Product is not selfigniting.

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

Void

· Solvent content:

· Water: ≥50.0 % · VOC (EC) 0.00 %

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard classes

· Explosives Flammable gases · Aerosols · Oxidising gases

Void Void 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 May be corrosive to metals.

· Desensitised explosives Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: Heating.
- · 10.3 Possibility of hazardous reactions

Corrosive action on metals.

Reacts with metals forming hydrogen.

Reacts with strong acids and alkali.

Reacts with oxidising agents.

Diluting or dissolving in water always causes rapid heating.

When diluting, always add acid to water, never vice versa.

- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: different metals
- 10.6 Hazardous decomposition products: In the event of fire: See chapter 5
- · Additional information:

hygroscopic

Incompatible with:

animal tissues

vegetable tissues

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	Type	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 Causes severe skin burns and eye damage.
- Serious eye damage/irritation Causes serious eye damage.
- · After inhalation: Strong caustic effect on skin and mucous membranes.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- 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)		

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EC50/96 h | 10 mg/l (Aquatic plants) EC50/24 h | 29 mg/l (daphnia magna) (bezogen auf die Reinsubstanz)

- · 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

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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
- · 14.3 Transport hazard class(es)
- · ADR



· Class 8 (C1) Corrosive substances.

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· Label	8
· IMDG, IATA	
· Class · Label	8 Corrosive substances. 8
· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards:	Not applicable.
 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Segregation groups Stowage Category Segregation Code 	Warning: Corrosive substances. 80 F-A,S-B (SGG1a) Strong acids B SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
· 14.7 Maritime transport in bulk according to IM instruments	O Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Tunnel restriction code	E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L 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.
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

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· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

7664-93-9 sulphuric acid 95 - 97%

Limit value: >15-≤40 % ≥15-≤50%

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

7664-93-9 sulphuric acid 95 - 97%

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Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

7664-93-9 sulphuric acid 95 - 97%

- 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.

- · Date of previous version: 20.08.2021
- · Version number of previous version: 24.12
- · Abbreviations and acronyms:

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)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

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.