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This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) 2020/878 Version 2.1 Revision date 24-12-2023 Printdate 24-12-2023

1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product name: NEOMERIS ORP buffer solution 475mV (±5mV @25°C

Product number(s): 70ml, 250ml, 500ml

890712, 890704, 890775

Supplier: Gebrüder Heyl Vertriebsgesellschaft für innovative

Wasseraufbereitung mbH

REACH Number: A registration number is not available for this substance as the

substance or use, except for registration for the annual volume does not require a registration or the registration is equipped with a later

registration deadline.

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

Recommended Use: Use as laboratory reagent, Calibration solution

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Gebrüder Heyl Vertriebsgesellschaft für innovative

Wasseraufbereitung mbH Max-Planck-Str. 16 31135 Hildesheim

Deutschland

Telephone: +49 (0)5121-76090

E-mail address: vertrieb@heylneomeris.de

1.4 Emergency telephone number

Emergency telephone number: GIZ-Nord Poisons Centre

+49 (0)551-19240 Solely intended to inform professional caregivers

in acute poisoning

2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) Nr 1272/2008

Serious eye damage/eye irritation, Cat. 2, H319 Skin corrosion/irritation, Cat. 1, H314 Corrosive to metals, Cat. 1, H290

Additional information:

For the full text of the phrases mentioned in this Section, see Section 16.



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2.2 Label elements Labeling:



Signal words: Danger

Hazard statements: H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

Precautions statements: P280 - Wear protective gloves, protective clothing, eye protection

and face protection.

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/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.

Supplemental information: None.

Product identifier: Sulphuric acid, CAS-No. 7664-93-9, EC-No. 231-639-5

2.3 Other hazards

Endocrine disrupting properties, Results of PBT and vPvB assessment: No data available

3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

No data available

3.2 Mixtures

Hazerdous ingredients:

Component	EC-No.	CAS-No.	Weight %	CLP Classification – Regulation (EC
				No. 1272/2008)
Sulphuric acid	231-639-5	7664-93-9	5 – 10%	Skin Corr. 1A H314
				[Skin Corr. 1A H314: C ≥ 15 % ;
				Skin Irrit. 2 H315: 5 % ≤ C < 15 % ;
				Eye Irrit. 2 H319: 5 % ≤ C < 15 %]

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities: None known.



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4: FIRST AID MEASURES

4.1 Description of first aid measures

General Advice: Use first aid treatment according to the nature of the injury. For further

assistance, contact your local Poison Control Center. Show this safety

data sheet to the doctor in attendance.

Inhalation: Move to fresh air in case of accidental inhalation of vapours or

decomposition products. Call a physician or poison control centre

immediately.

Skin Contact: Wash off immediately with soap and plenty of water while removing

all contaminated clothes and shoes. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly

and with difficulty.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes. Protect unharmed eye. If eye irritation persists,

consult a specialist.

Ingestion: Clean mouth with water and drink afterwards plenty of water. Do not

induce vomiting. If symptoms persist, call a physician or Poison Control

Center immediately.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

The product is not flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds.

5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Use personal protective equipment. Evacuate personnel to safe areas. Sweep up to prevent slipping hazard. Handle in accordance with good industrial hygiene and safety practice.



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6.2 Environmental precautions

Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

6.3 Methods and material for containment and cleaning up

Neutralize with chalk, alkali solution or ammonia. Soak up with inert absorbent material. Keep in suitable and closed containers for disposal (Plastic container of HDPE).

6.4 Reference to Other Sections

For additional waste treatment information, see section 8 and 13.

7: HANDLING AND STORAGE

7.1 Precautions for safe handling

To avoid risks to human health and the environment, comply with the instructions for use. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Keep away from direct sunlight.

7.3 Specific end use(s)

Some of the applications mentioned in section 1.2 No other applications have been agreed

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limit(s): No data is available on the product itself.

Sulphuric acid (CAS 7664-93-9)	
United Kingdom - Workplace Exposure Limits (WELs) – STELs	0.15 mg/m3 STEL (calculated, mist)
United Kingdom - Workplace Exposure Limits (WELs) – TWAs	0.05 mg/m3 TWA (mist)
EU - Occupational Exposure (2009/161/EU) - Third List of Indicative Occupational Exposure Limit Values – TWAs	0.05 mg/m3 TWA (taking into account potential limitations and interferences which take place in the presence of other Sulphur compounds, mist (thoracic fraction))



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8.2 Exposure controls

Appropriate engineering controls: Avoid contact with skin, eyes and clothing.

Personal protection equipment

Respiratory protection: No personal respiratory protective equipment normally required.

Breathing apparatus needed only when aerosol or mist is formed. Respirator with combination filter for vapour/particulate

(EN 14387).

Hand protection: Gloves made of Chloroprene. The selected protective gloves

have to satisfy the specifications of Regulation (EU) No. 2016/425 and the standard EN 374 derived from it. Break through time: > 4 h. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of

contact).

Eye protection: Safety glasses with side-shields conforming to EN166.

Skin and body protection: Long sleeved clothing. Choose body protection according to the

amount and concentration of the dangerous substance at the

work place.

Thermal hazards No special measures required.

Environmental exposure controls: Prevent product from entering surface water or sewage.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance: Light yellow

b) Odor: None

c) Odor Threshold:

No data available

d) pH: at 20°C pH 0.1

e) Melting point/freezing point: No data available

f) Boiling Point/Range: at approx. 100°C

g) Flash Point: No data available

h) Evaporation Rate: No data available

i) Flammability (solid, gas) No data available

j) Flammability Limit in Air: No data available

k) Vapor pressure: No data available

I) Vapor Density: No data available

m) Specific Gravity: at 20°C approx. 1.0 g/ml

n) Water Solubility: Soluble



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o) Partition coefficient n-octanol / water: No data available

p) Autoignition Temperature: No data available

q) Decomposition Temperature: No data available

r) Viscosity No data available

s) Explosive Properties: No data available

t) Oxidizing Properties: No data available

9.2 Other safety information

Explosive properties: No data available

Oxidizing characteristics: No data available

Auto-ignition temperature: No data available

Solid content: No data available

Water content: No data available

Evaporation rate: No data available

10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Heating can release hazardous gases

10.4 Conditions to avoid

Direct heating, dirt, chemical contamination, sunlight, UV or ionizing radiation.

10.5 Incompatible materials

Metals. Alkaline metals. Strong bases. Halogenated compounds. Ammonia.

10.6 Hazardous decomposition products

Sulphur oxides.



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11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity:No data is available on the product itself.

Sulphuric acid (CAS 7664-93-9) Inhalation LC50 Rat = 0.375

mg/L 4 h(OECD_SIDS) Oral LD50 Rat = 2140 mg/kg

(JAPAN_GHS)

Skin corrosion/irritation: Causes severe burns.

Serious eye damage/eye irritation: Causes serious eye damage.

Respiratory / Skin Sensitisation: No data available.

Carcinogenicity: No data available.

Germ cell mutagenicity: No data available.

Reproductive toxicity: No data available.

Specific target organ toxicity:

(single exposure)

No data available.

Specific target organ toxicity:

(repeated exposure)

No data available.

Aspiration hazard:

No data available.

Human experience: No data available.

11.2 Information on other hazards

Endocrine disrupting properties: No data available

Symptoms related to the physical, chemical and toxicological characteristics

The product causes burns of eyes, skin and mucous

membranes.

Other information: No data available.

12: ECOLOGICAL INFORMATION

12.1 Toxicity

No data is available on the product itself. May change pH of waters.

Sulphuric acid (CAS 7664-93-9)

Ecotoxicity - Freshwater Fish - : LC50 96 h Brachydanio rerio >500 mg/L [static] (IUCLID)

Acute Toxicity Data

12.2 Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.



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12.3 Bioaccumulative potential

Does not bioaccumulate.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues / unused products

Dispose of in accordance with local regulations. European Waste catalogue code (EWC-code): 06 01 01 *.

Contaminated Packaging

Dispose of as unused product.

14: TRANSPORT INFORMATION

14.1 UN-number

ADR/RID: UN 3264 IMDG: UN 3264 IATA: UN 3264

14.2 Proper Shipping Name

ADR/RID: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Sulphuric acid). IMDG: CORROSIVE LIQUID. ACIDIC. INORGANIC. N.O.S. (Sulphuric acid).

IATA: Corrosive liquid, acidic, inorganic, n.o.s. (Sulphuric acid).

14.3 Hazard Class

ADR/RID: 8 IMDG: 8 IATA: 8

14.4 Packing Group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazard

ADR/RID: No IMDG Marine pollutant: No IATA: No

14.6 Special Provisions

No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC-code

No data available



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UN Model Regulations

ADR/RID UN 3264.

Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

(Sulphuric acid).

Class 8.

Packing group III. ADR/RID-Labels 8. Classification code C1. Hazard identification no. 80.

Limited quantity 5 L. Excepted quantity E1. Transport category 3. Tunnel restriction code (E).

IMDG UN 3264.

Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

(Sulphuric acid).

Class 8.

Packing group III. IMDG-Labels 8. Limited quantity 5 L. Excepted quantity E1. EmS F-A, S-B.

Marine pollutant: No..

IATA UN 3264.

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (Sulphuric

acid). Class 8.

Packing group III. IATA label 8.

Packing instruction (passenger aircraft): 852 (5 L).

Packing instruction (LQ): Y841 (1 L).

Packing instruction (cargo aircraft): 856 (60 L).

Inland navigation ADN UN 3264.

Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

(Sulphuric acid).

Class 8.

Packing group III. ADN labels 8.

Classification code C1. Limited quantity 5 L. Excepted quantity E1.

Further Information None.



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15: REGULATORY INFORMATION

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

Regulatory Information The product is classified and labelled according to Regulation (EC) No. 1272/2008.

Sulphuric acid (CAS 7664-93-9)	
EU - Narcotics (111/2005) -	Category 3 Substance ([2807 00 00])
Implementing Export Requirements	
- Scheduled Substances	
EU - Narcotics (2015/1011) -	100 kg
Implementing Export Requirements	
- Annual Maximum Export Quantities for Exemption	
EU - Narcotics (273/2004) - Drug Precursors	Category 3 Substance ([2807 00 00])
- Annex I – Scheduled Substances	
EU - REACH (1907/2006) - Annex XVII	Use restricted. See item 75. (B)
- Restrictions on Certain Dangerous Substances	
EU - REACH (1907/2006) - List of Registered	Present ([231-639-5])
Intermediates	
EU - REACH (1907/2006) - List of Registered	Present
Substances	
UN (United Nations) – Convention on Illicit Traffic in	Present (listed under HS Code: 2807.00)
Narcotics & Psychotropics	
- Table II Substances	

15.2 Chemical safety assessment

For this product no chemical safety assessment has been carried out.

16: OTHER INFORMATION

Full text of H-phrases referred to under sections 2 and 3.

H290 = May be corrosive to metals.

H314 = Causes severe skin burns and eye damage.

H319 = Causes serious eye irritation.

Disclaimer:

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