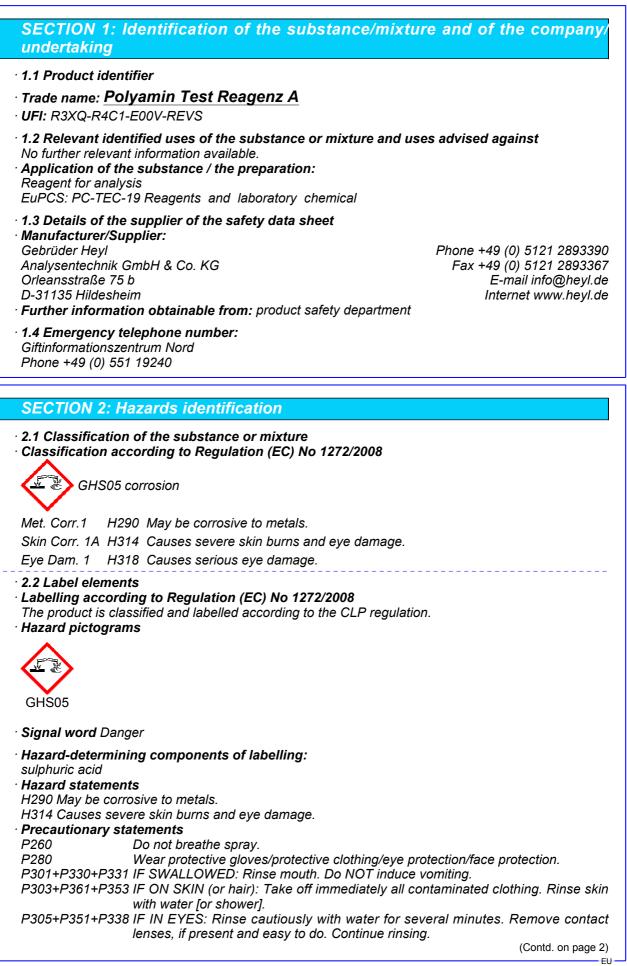


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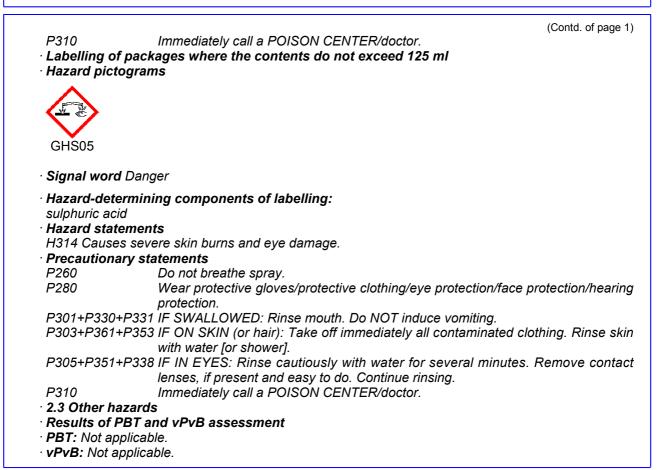


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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

Description:

Mixture of substances listed below with nonhazardous additions according to Regulation (EC) No 1272/2008.

· Dangerous components:

Dangerous components.		
CAS: 7664-93-9	sulphuric acid	≥ 15 – ≤ 25%
EINECS: 231-639-5	📀 Skin Corr. 1A, H314	
Index number: 016-020-00-8	Špecific concentration limits: Skin Corr. 1A; H314: C ≥	
Reg.nr.: 01-2119458838-20	15 %	
	Skin Irrit. 2; H315: 5 % ≤	
	C < 15 %	
	Eye Irrit. 2; H319: 5 % ≤	
	C < 15 %	
CV//IC Nataralizable	l.	

· SVHC Not applicable.

• 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: Immediately remove any clothing soiled by the product.

· After inhalation:

- Supply fresh air.
- Call a doctor immediately.

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

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· After skin contact:	. or page 2)
Clean with water and soap. If possible, also wash with polyethylene glycol 400.	
Seek medical treatment.	
After eye contact:	
Protect unharmed eye. Rinse opened eye for several minutes under running water.	
Seek immediate medical advice.	
After swallowing:	
A person vomiting while laying on their back should be turned onto their side.	
Rinse out mouth and then drink plenty of water.	
Do not induce vomiting; call for medical help immediately.	
 • 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: Use fire extinguishing methods suitable to surrounding co	nditions.
 5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire. 	
· 5.3 Advice for firefighters	
· Protective equipment:	
Wear self-contained respiratory protective device.	
Wear fully protective suit.	
SECTION 6: Accidental release measures	
• 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keen upprotected persons away	
Wear protective equipment. Keep unprotected persons away.	
Wear protective equipment. Keep unprotected persons away. 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.	
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 Wear protective equipment. Keep unprotected persons away. 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water. 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation. Absorb liquid components with liquid-binding material. Dispose of the material collected according to regulations. Clean the affected area carefully; suitable cleaners are: Weak alkaline solution 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 13 for disposal information. SECTION 7: Handling and storage 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.	

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

• **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle. • **Information about storage in one common storage facility:** Store away from foodstuffs.

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- Further information about storage conditions: Keep container tightly sealed. Protect from heat and direct sunlight.
- Store receptacle in a well ventilated area. • **Recommended storage temperature:** 15 - 25 °C
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:
- CAS: 7664-93-9 sulphuric acid

IOELV Long-term value: 0.05 mg/m³

Regulatory information IOELV: (EU) 2017/164

- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working.

• Respiratory protection:

Use suitable respiratory protective device when aerosol or mist is formed. Filter: Type E 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.

Protection of hands:



Protective gloves

Wear gloves according to EN 374.

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

Check protective gloves prior to each use for their proper condition.

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

• 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.

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: ≥ 0.12 mm Value for the permeation: Level = 6 (> 480 min)

As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR

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Recommended thickness of the material: ≥ 0.12 mm Value for the permeation: Level = 6 (> 480 min) • **Eye protection:**

Tightly sealed goggles according to EN 166

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties				
9.1 Information on basic physical and chemical properties				
General Information				
Appearance:				
Form:	Fluid			
Colour:	Colourless			
· Odour:	Odourless			
· Odour threshold:	Not determined.			
· pH-value at 20 °C:	1			
· Change in condition				
Melting point/freezing point:	Undetermined.			
Initial boiling point and boiling range	: Undetermined.			
· Flash point:	Undetermined.			
· Flammability (solid, gas):	Not applicable.			
· Ignition temperature:	Not determined.			
· Decomposition temperature:	Not determined.			
· Auto-ignition temperature:	Product is not selfigniting.			
· Explosive properties:	Product does not present an explosion hazard.			
· Explosion limits:				
Lower:	Not determined.			
Upper:	Not determined.			
· Vapour pressure:	Not determined.			
· Density at 20 °C:	1.12 g/cm ³			
· Relative density	Not determined.			
· Vapour density	Not determined.			
Evaporation rate	Not determined.			
· Solubility in / Miscibility with				
water:	Fully miscible.			
· Partition coefficient: n-octanol/water:	Not determined.			
· Viscosity:				
Dynamic:	Not determined.			
Kinematic:	Not determined.			
[•] 9.2 Other information	No further relevant information available.			

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: No decomposition if used according to specifications.

• **10.3 Possibility of hazardous reactions** Reacts with alkaline metals. Corrosive action on metals.

Heating occurs when water is added.

Reacts with alkali (lyes).

Reacts with metals forming hydrogen.

· 10.4 Conditions to avoid No further relevant information available.

- · 10.5 Incompatible materials: Alkaline substances.
- · 10.6 Hazardous decomposition products: Sulphuric acid

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

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

· LD/LC50 values relevant for classification:

CAS: 7664-93-9 sulphuric acid

Oral LD50 2,140 mg/kg (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation

Causes severe skin burns and eye damage.

- Serious eye damage/irritation
- Causes serious eye damage.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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.

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- · 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.
- Additional ecological information:
- · General notes:
- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

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SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

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

Disposal must be made according to official regulations.

- · Uncleaned packaging:
- Recommendation:
- Packagings that may not be cleansed are to be disposed of in the same manner as the product. Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

14.1 UN-Number	100700
ADR, IMDG, IATA	UN2796
14.2 UN proper shipping name	
ADR	2796 SULPHURIC ACID
IMDG, IATA	SULPHURIC ACID
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class	8 Corrosive substances.
Label	8
14.4 Packing group	
ADR, IMDG, IATA	11
14.5 Environmental hazards:	
Marine pollutant:	Νο
•	
14.6 Special precautions for user	Warning: Corrosive substances.
Danger code (Kemler):	80 E 4 6 B
EMS Number:	F-A, S-B
Segregation groups	Strong acids
Stowage Category	B
Segregation Code	SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
	· · ·
14.7 Transport in bulk according to Ani	
of Marpol and the IBC Code	Not applicable.
Transport/Additional information:	Void
ADR	
Limited quantities (LQ)	1L
Excepted quantities (ÉQ)	Code: E2
, , , , , , , , , , , , , , , , , , , ,	Maximum net quantity per inner packaging: 30 i
	Maximum net quantity per outer packaging: 500
Transport category	2
Tunnel restriction code	E



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 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
- · National regulations:
- · Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

- Employment restrictions concerning pregnant and lactating women must be observed.
- 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

H314 Causes severe skin burns and eye damage.

- · Department issuing SDS: product safety department.
- 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 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 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) 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.