



08.01.2025

Kit Components

Product code	Description
325	Fosforo / Phosphorus B81180121 - B81180122 - B75182508 - B75182509 - R3330000024 - A-R0100000701 - B74182729 - B74182705 - B74182748

Components:

291937	Reagente A Fosforo UV
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Safety data sheet
according to Regulation (EC) No 1907/2006,
Article 31 including amending Regulation
EU/2020/878

Printing date 08.01.2025

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

- **1.1 Diagnostic Reagent**
- **Trade name:** Reagente A Fosforo UV
- **Article number:** 291937
- **CAS Number:**
7732-18-5
- **EC number:**
231-791-2
- **UFI:** WA20-M03P-M00C-HHPF
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
Relevant Identified Uses: For laboratory use only
Uses advised against: Uses other than those recommended
- **Application of the substance / the mixture** Diagnostic reagent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Sclavo Diagnostics International
Via Po 26-28, Loc. Pian dei Mori
CAP: 53018 - SOVICILLE - (SI)
ITALY
- **Further information obtainable from:** Product safety department.
- **1.4 Emergency telephone number:** +39 0577 390 444 / 445

2 Hazards identification

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



GHS05 corrosion

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 substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS05

(Contd. on page 2)

Safety data sheet
according to Regulation (EC) No 1907/2006,
Article 31 including amending Regulation
EU/2020/878

Printing date 08.01.2025

Version number 1

Revision: 08.01.2025

Trade name: Reagente A Fosforo UV


(Contd. of page 1)

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**
sulphuric acid
- **Hazard statements**
H314 Causes severe skin burns and eye damage.
- **Precautionary statements**
 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.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **3.1 Substances**
- **CAS No. Description**
7732-18-5 water, distilled, conductivity or of similar purity
- **Identification number(s)**
- **EC number:** 231-791-2

• **Dangerous components:**

CAS: 7664-93-9	sulphuric acid	≥0.25-<5%
EINECS: 231-639-5	 Skin Corr. 1A, H314 Specific concentration limits: SkinCorr. 1A; H314: $C \geq 15\%$ Skin Irrit. 2; H315: $5\% \leq C < 15\%$ Eye Irrit. 2; H319: $5\% \leq C < 15\%$	

4 First aid measures

- **4.1 Description of first aid measures**
- **General information:**
Immediately remove any clothing soiled by the product.
- **After inhalation:**
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
Drink plenty of water and provide fresh air. Call for a doctor immediately.

(Contd. on page 3)

Safety data sheet
according to Regulation (EC) No 1907/2006,
Article 31 including amending Regulation
EU/2020/878

Printing date 08.01.2025

Version number 1

Revision: 08.01.2025

Trade name: Reagente A Fosforo UV

(Contd. of page 2)

- **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.

5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Dilute with plenty of 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.
- **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.

7 Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
Keep respiratory protective device available.
- **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 tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

IE

(Contd. on page 4)

Safety data sheet
according to Regulation (EC) No 1907/2006,
Article 31 including amending Regulation
EU/2020/878

Printing date 08.01.2025

Version number 1

Revision: 08.01.2025

Trade name: Reagente A Fosforo UV

(Contd. of page 3)

8 Exposure controls/personal protection

• 8.1 Control parameters

• Ingredients with limit values that require monitoring at the workplace:

7664-93-9 sulphuric acid

OEL	Long-term value: 0.05 mg/m ³
	IOELV, thoracic fraction

• 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.

Avoid contact with the eyes and skin.

• **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.

Required when vapours/aerosols are generated.

Our recommendations on respiratory protection filtering are based on the following standards: DIN EN 143, DIN 14387 and other associated standards relating to the respiratory protection system used.

Suggested filter type: ABEK filter type

• **Hand protection**



Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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.

• **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.

• **Eye/face protection**



Tightly sealed goggles

Use eye protection devices tested and approved according to the requirements of appropriate technical standards such as NIOSH (USA) or EN 166 (EU) Safety glasses

(Contd. on page 5)

Safety data sheet
according to Regulation (EC) No 1907/2006,
Article 31 including amending Regulation
EU/2020/878

Printing date 08.01.2025

Version number 1

Revision: 08.01.2025

Trade name: Reagente A Fosforo UV

(Contd. of page 4)

- **Body protection:**

- **Skin protection**

This recommendation only applies to the product identified in the MSDS, supplied by us and for the purpose we have determined. When dissolving or mixing with other substances and under conditions other than those stipulated in EN 374, please contact the EC-approved glove supplier (e.g. KCL GmbH, D-36124 Eichenzell, Internet:www.kcl.de).

Full contact

Material: butyl rubber

Minimum thickness: 0.7 mm

Permeation time: > 480 min

Tested material:Butoject® (KCL 898)

Spray contact

Material: Viton®

minimum thickness: 0.70 mm

Permeation time: > 120 min

Tested material:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

9 Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

• Physical state	Liquid
• Colour:	Colourless
• Odour:	Odourless
• Odour threshold:	Not determined.
• Melting point/freezing point:	0 °C
• Boiling point or initial boiling point and boiling range	100 °C (7732-18-5 water, distilled, conductivity or of similar purity)
• Flammability	Not applicable.
• Lower and upper explosion limit	
• Lower:	Not determined.
• Upper:	Not determined.
• Flash point:	Not applicable.
• Decomposition temperature:	Not determined.
• pH	pH below -3.
• Viscosity:	
• Kinematic viscosity	Not determined.
• Dynamic at 20 °C:	0.952 mPas
• Solubility	
• water:	Fully miscible.
• Partition coefficient n-octanol/water (log value)	Not determined.
• Vapour pressure at 20 °C:	23 hPa (7732-18-5 water, distilled, conductivity or of similar purity)
• Density and/or relative density	
• Density at 20 °C:	1 g/cm³
• Relative density	Not determined.
• Vapour density	Not determined.

- **9.2 Other information**

• Appearance:	
• Form:	Fluid

(Contd. on page 6)

Safety data sheet
according to Regulation (EC) No 1907/2006,
Article 31 including amending Regulation
EU/2020/878

Printing date 08.01.2025

Version number 1

Revision: 08.01.2025

Trade name: Reagente A Fosforo UV

(Contd. of page 5)

- **Important information on protection of health and environment, and on safety.**
- **Ignition temperature:** Not determined.
- **Explosive properties:** Product does not present an explosion hazard.
- **Solvent content:**
- **Water:** 98.3 %
- **VOC (EC)** 0.00 %
- **Solids content:** 0.0 %
- **Molecular weight** 18.02 g/mol
- **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

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:**
No dangerous decomposition products known.

IE

(Contd. on page 7)

Safety data sheet
according to Regulation (EC) No 1907/2006,
Article 31 including amending Regulation
EU/2020/878

Printing date 08.01.2025

Version number 1

Revision: 08.01.2025

Trade name: Reagente A Fosforo UV

(Contd. of page 6)

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.
 - **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.
 - **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**
The product contains substances, which affect the thyroid system and other hormonal systems.
- None of the ingredients is listed.

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.
- **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:**
Not hazardous for water.
Must not reach sewage water or drainage ditch undiluted or unneutralised.

IE

(Contd. on page 8)

Safety data sheet
according to Regulation (EC) No 1907/2006,
Article 31 including amending Regulation
EU/2020/878

Printing date 08.01.2025

Version number 1

Revision: 08.01.2025

Trade name: Reagente A Fosforo UV

(Contd. of page 7)

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.

- European waste catalogue

HP4	Irritant - skin irritation and eye damage
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- Uncleaned packaging:

- Recommendation:

Disposal must be made according to official regulations.

- Recommended cleansing agents:

Water, if necessary together with cleansing agents.

14 Transport information

- 14.1 UN number or ID number

ADR, IMDG, IATA	UN2796
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- 14.2 UN proper shipping name

ADR	2796 SULPHURIC ACID
IMDG	SULPHURIC ACID
IATA	Sulphuric acid

- 14.3 Transport hazard class(es)

- ADR



Class	8 (C1) Corrosive substances.
Label	8

- IMDG, IATA



Class	8 Corrosive substances.
Label	8

- 14.4 Packing group

ADR, IMDG, IATA	II
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14.5 Environmental hazards:	Not applicable.
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14.6 Special precautions for user	Warning: Corrosive substances.
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- Hazard identification number

(Kemler code):	80
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EMS Number:	F-A,S-B
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Segregation groups	(SGG1a) Strong acids
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Stowage Category	B
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(Contd. on page 9)

Safety data sheet
according to Regulation (EC) No 1907/2006,
Article 31 including amending Regulation
EU/2020/878

Printing date 08.01.2025

Version number 1

Revision: 08.01.2025

Trade name: Reagente A Fosforo UV

(Contd. of page 8)

- | | |
|---|---|
| • Segregation Code | SG36 Stow "separated from" SGG18-alkalis.
SG49 Stow "separated from" SGG6-cyanides |
| • 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| • Transport/Additional information: | |
| • 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 | E |
| • 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 |

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** Substance is not 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.
- **REGULATION (EU) 2019/1148**
- **Regulation (EC) No 273/2004 on drug precursors**
- 7664-93-9 sulphuric acid 3
- **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 3
- **15.2 Chemical safety assessment:**
- A Chemical Safety Assessment has not been carried out.

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.

(Contd. on page 10)

IE

Safety data sheet
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Version number 1

Revision: 08.01.2025

Trade name: Reagente A Fosforo UV

(Contd. of page 9)

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

• **Relevant phrases**

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

• **Department issuing SDS:** Product safety department.

• **Contact:** -

• **Date of previous version:** 25.06.2024

• **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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

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.**

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