

08.01.2025	Kit Components

Product code	Description	
308	Proteine Totali / Total protein B81180151 - B81180152 - B75182512 - B75182513 - A-R0100000801 - R3330000024 - B74182707 - B74182731	
Components:		
291903	Biureto Tartrato Reagente	



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Revision: 08.01.2025

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

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

- · 1.1 Diagnostic Reagent
- · Trade name: Biureto Tartrato Reagente
- · Article number: 291903
- **UFI:** PS00-G0PJ-300F-MD69
- · 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. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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

 The product is classified and labelled according to the CLP regulation.
- · Hazard pictograms



· Signal word Danger

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

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· Hazard-determining components of labelling:

sodium hydroxide

· Hazard statements

H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P101	If medical advice is needed, have product container or	
	label at hand.	
P102	Keep out of reach of children.	
P103	Read carefully and follow all instructions.	
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

- · 3.2 Mixtures
- · Description:

Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 1310-73-2 EINECS: 215-185-5	sodium hydroxide Skin Corr. 1A, H314; ↑ Acute Tox. 4, H302 Specific concentration limits: SkinCorr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	≥2-<5%
CAS: 7758-99-8 EINECS: 231-847-6	copper(II) sulfate, pentahydrate Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302 ATE: LD50 oral: 481 mg/kg	≥0.25-<18
CAS: 7681-11-0 EINECS: 231-659-4	potassium iodide STOT SE 1, H370; STOT RE 1, H372; Eye Irrit. 2, H319; Lact., H362	0.1-0.25

· Additional information:

For the wording of the listed hazard phrases refer to section 16.

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4 First aid measures

- \cdot 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.

- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- \cdot 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:

Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

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.

· 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.

ΙE

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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.
- \cdot Further information about storage conditions:

Keep container tightly sealed.

· 7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· 8.1 Control parameters

\cdot Ingredients with limit values that require monitoring at the workplace:

1310-73-2 sodium hydroxide

OEL Short-term value: 2 mg/m³

7681-11-0 potassium iodide

OEL Short-term value: 0.1 ppm
Long-term value: 0.01* ppm
*inhalable fraction and vapour

· 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

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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. 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.

· 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

- · 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
Colour:
Odour:
Odour threshold:
Liquid
Blue
Odourless
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.

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Lower and upper explosion limit		
Lower:	Not determined.	
Upper:	Not determined.	
Flash point:	Not applicable.	
Decomposition temperature:	Not determined.	
pH	Not determined.	
Viscosity:		
Kinematic viscosity	Not determined.	
Dynamic at 20 °C:	0.952 mPas	
Solubility	0.902 mras	
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	
Important information on		
protection of health and		
environment, and on safety.		
Ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosi	
	hazard.	
Solvent content:		
Water:	95.9 %	
VOC (EC)	0.00 %	
Solids content:	3.4 %	
Molecular weight	18.02 g/mol	
Change in condition	3	
Evaporation rate	Not determined.	
	net determined.	
Information with regard to physical hazard classes		
Even Logi vog	To i d	
Explosives	Void	
Flammable gases	Void	
Flammable gases Aerosols	Void Void	
Flammable gases Aerosols Oxidising gases	Void	
Flammable gases Aerosols	Void Void	
Flammable gases Aerosols Oxidising gases Gases under pressure	Void Void Void	
Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids	Void Void Void Void	
Flammable gases Aerosols Oxidising gases	Void Void Void Void Void	
Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids	Void Void Void Void Void	
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Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact	Void Void Void Void Void Void Void Void	
Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water	Void Void Void Void Void Void Void Void	
Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact	Void Void Void Void Void Void Void Void	

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Organic peroxides
 Corrosive to metals
 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.

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:		
ATE (Acute Toxicity Estimates)		
Oral	LD50 100,000 mg/kg (rat)	
1310-73-2 sodium hydroxide		
Oral	LD50 2,000 mg/kg (rat)	
7758-99-8 copper(II) sulfate, pentahydrate		
Oral	LD50 481 mg/kg (ATE)	

- · Primary irritant effect:
- \cdot Skin corrosion/irritation Causes severe skin burns and eye damage.
- · Serious eye damage/irritation Causes serious eye damage.
- \cdot 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.

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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
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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

Danger to drinking water if even extremely small quantities leak into the ground.

Harmful to aquatic organisms

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.

	ean waste catalogue
HP4	Irritant - skin irritation and eye damage
HP14	Ecotoxic

- · 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 UN1760

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· IMDG

· Limited quantities (LQ)

(Contd. of page 8) · 14.2 UN proper shipping name · ADR 1760 CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE) · IMDG CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE) · IATA Corrosive liquid, n.o.s. (SODIUM HYDROXIDE) · 14.3 Transport hazard class(es) · ADR · Class 8 (C9) Corrosive substances. · Label · IMDG, IATA · Class 8 Corrosive substances. · Label · 14.4 Packing group · ADR, IMDG, IATA TT · 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· Segregation groups (SGG18) Alkalis · Stowage Category · Stowage Code SW2 Clear of living quarters. · 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

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· 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 1760 CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE), 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 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.

- · REGULATION (EU) 2019/1148
- · Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

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

None of the ingredients is listed.

- · 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. This Safety Data Sheets is in compliance with Regulation (EC) No

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

· Relevant phrases

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H362 May cause harm to breast-fed children.
- H370 Causes damage to organs.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

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- · Department issuing SDS: Product safety department.
- · Contact: -

Category 1

Category 3

- · Date of previous version: 24.05.2024

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· 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)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
 ATE: Acute toxicity estimate values
 Acute Tox. 4: Acute toxicity - Category 4
 Skin Corr. 1A: Skin corrosion/irritation - Category 1A
Skin Corr. 1B: Skin corrosion/irritation - Category 1B
  Eye Dam. 1: Serious eye damage/eye irritation - Category 1
  Eye Irrit. 2: Serious eye damage/eye irritation - Category 2
 Lact.: Reproductive toxicity - effects on or via lactation
  STOT SE 1: Specific target organ toxicity (single exposure) - Category 1
  STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard -
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Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard -

· * Data compared to the previous version altered.

TE -