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

1.1 Product identifier

- Product Name: **PROTEUS**

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

Diagnostic reagent set for the in-vitro qualitative screening and semi-quantitative determination of Proteus antibodies present in infected human serum manually.

1.3 Details of the supplier of the safety data sheet

- Name of Manufacturer: Arena BioScien, SEA
- Address of Manufacturer: Block 5, Street 9 Ismailia free zone. Ismailia- Egypt
- Telephone: +202 21813500/ +201113102057
- Email: admin@arenabioscientific.com

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H302 Harmful if swallowed.

· 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 Warning

· Hazard statements

H302 Harmful if swallowed.

· Precautionary statements

P264

Wash thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330

Rinse mouth.

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

SECTION 3 Composition/information on ingredients

3.1 Substances

Reagents:	Composition	CAS-No.
Antigen	- OX19 Antigen Suspension - OX2 Antigen Suspension - OXK Antigen Suspension	CAS: 57-50-1
Positive Control	Poly-specific positive control reactive with antigens.	
Negative Control	A buffer solution containing 5mg/ml BSA and 0.1% sodium azide.	

SECTION 4 First aid measures

4.1 Description of first aid measures

- General

In case of doubt, or when symptoms persist, seek medical attention.
In general, this product is not hazardous to humans or animals, but like any other chemical, it should be treated with care, respect, and common sense.

- Contact with skin

Remove contaminated clothing.
Wash affected area with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention. Contaminated clothing should be laundered before reuse.

- Contact with eyes

If substance has gotten into eyes, immediately wash out with plenty of water for at least 15 minutes. Irrigate eyes thoroughly while lifting eyelids. Seek medical advice if necessary.

- Ingestion

Rinse mouth with water (do not swallow).
Never make an unconscious person vomit or drink fluids.
If medical advice is needed, have product container or label at hand.

- Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

- The most important known symptoms are described in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically.

SECTION 5 Fire-fighting measures

5.1 Extinguishing media

- In case of fire: use foam, carbon dioxide or dry agent for extinction.

5.2 Special hazards arising from the substance or mixture

- Smoke from fires is toxic. Take precautions to protect personnel from exposure.
- See Section 10.

5.3 Advice for firefighters

- Keep container(s) exposed to fire cool, by spraying with water.
- Wear chemical protection suit and positive-pressure breathing apparatus.
- Wear protective clothing as per Section 8.

5.4 Hazardous Combustion Products

- May include carbon oxides.

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Shut off all ignition sources.
- Use non-sparking hand tools.
- Avoid raising dust.
- Remove contaminated clothing.
- Wear protective clothing as per Section 8.
- Wash thoroughly after dealing with spillage.

6.2 Environmental Precautions

- Prevent soil and water pollution
- Substance must not be discharged into the sewer
- Contain leaking substance, pump over in suitable containers - Plug the leak, cut off the supply
- Dam up the liquid spill

6.3 Methods and material for containment and cleaning up

- Absorb spillage in inert material and shovel up.
- Place in sealable container.
- Seal containers and label them.
- Ventilate the area and wash spill site after material pick-up is complete.
- Dispose of contaminated materials and wastes in accordance with local/national/international regulations.

6.4 Reference to other sections
- See Section 7.

SECTION 7 Handling and storage

7.1 Precautions for safe handling
- Do not breathe dust.
- Avoid contact with skin and eyes.
- Do not eat, drink, or smoke when using this product.
- Ensure adequate ventilation.
- Eyewash bottles should be available.
- Wash hands thoroughly after using this substance.

7.2 Conditions for safe storage, including any incompatibilities
- Storage temperature: see component label
- Store in a well-ventilated place. Keep container tightly closed.
- Store in a dry place.
- Keep away from: heat sources, acids.

SECTION 8 Exposure controls/personal protection

8.1 Exposure limits
WEL (8 hr TWA): 0.1 mg/m3 WEL (15 min STEL): 0.3 mg/m3

8.2 Exposure controls
- Eyewash bottles should be available.
- Engineering controls should be provided to prevent the need for ventilation.
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask, NIOSH N95 (US) or type FFP1 (EN143) dust masks.
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Wear safety glasses approved to standard for ANSI Z87 or EN 166.
- Wear suitable protective clothing in accordance with good chemical hygiene practices.



SECTION 9 Physical and chemical properties

Form : dispersion
Colour: dispersion white weak
Odour: dispersion white weak
Odour Threshold: No data available
pH : 4.0 - 6.0 (1 %) (23 °C) (deionized water)
Melting point/range: No data available
Boiling Point : No data available

Flash point: > 100 °C
Flammability: No data available
Auto-ignition temperature: 405 °C
Thermal decomposition: No data available
Minimum ignition energy: No data available
Self-accelarating : No data available
decomposition temperature (SADT): No data available
Upper explosion limit: No data available
Lower explosion limit: No data available
Vapour pressure: No data available
Evaporation rate: No data available
Relative vapour density: No data available
Relative density: No data available
Density : ca. 1.02 g/cm³ (20 °C)
Water solubility: dispersible
Partition coefficient n octanol/water: Thiacloprid: log Pow: 1.26 (20 °C) Deltamethrin: log Pow: 6.4 (25 °C)
Viscosity: dynamic 438.2 mPa.s (20 °C)
Velocity gradient 20 /s 536.3 mPa.s (40 °C)
Velocity gradient 20 /s
Viscosity Kinematic: No data available
Surface tension: 30 mN/m (25 °C) Determined in the undiluted form.
Oxidizing properties: No oxidizing properties
Explosivity: Not explosive 92/69/EEC, A.14 / OECD 113
9.2 Other information Further safety related physical-chemical data are not known.

SECTION 10 Stability and reactivity

10.1 Reactivity
- No information available

10.2 Chemical stability
- Considered stable under normal conditions.

10.3 Possibility of hazardous reactions
- No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid
- Avoid contact of the products with lead and copper (plumbing metals), mercury, acids, and oxidising agents.

10.5 Incompatible materials
- None known

10.6 Hazardous Decomposition Products
- In combustion emits toxic fumes.

SECTION 11 Toxicological information

11.1 Information on toxicological effects
- Sodium Azide

Toxicity and effects Acute toxicity: LD50 oral rat : 27 mg/kg
LD50 dermal rabbit : 20 mg/kg
Acute effects: Harmful if swallowed Chronic toxicity: Carcinogenicity (TLV) : A4

- Routes of exposure

Ingestion, inhalation, eyes and skin
Caution! These components contain a substance that is absorbed through the skin (sodium azide).

SECTION 12 Ecological information

12.1 Aquatic Toxicity

- Sodium azide: - LC50 (96 h): 0.8 mg/l (SALMO GAIRDNERI/ONCORHYNCHUS MYKISS)
  - LC50 (96 h): 0.7 mg/l (LEPOMIS MACROCHIRUS)
  - LC50 (48 h): 9 mg/l (GAMMARUS SP.)

12.2 Other information

- Effect on the ozone layer: Not dangerous for the ozone layer (1999/45/EC)
- Greenhouse effect: No data available
- Effect on wastewater purification: No data available

SECTION 13 Disposal considerations

Provisions relating to waste: Hazardous waste (91/689/EEC).
Packaging/container: Waste material code packaging (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 10 (packaging containing residues of or contaminated by dangerous substances)
Disposal methods:

- The positive and negative controls are potentially infectious. It should be disposed of following established safety procedures and local regulations.
- The component must be considered as hazardous waste. It should be disposed of following local regulations.
- Sodium azide reacts with lead and copper plumbing forming highly explosive metal azides.

SECTION 14 Transport information

- No restrictions.

SECTION 15 Regulatory information

Classification according to directives 67/548/EEC, 1999/45/EC.
Contains sodium azide


Xn Harmful
R22: Harmful if swallowed
S23: Do not breathe vapour
S46: If swallowed, seek medical advice immediately and show this container or label
S61: Avoids release to the environment. Refer to special instructions/safety data sheets.

SECTION 16 Other information

Date of Preparation: September 2019
Revision: Rev. 0
Replaces: New issue
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