



Material Safety Data Sheet

According to EC Directive 91/155/EEC

Date of issue: May 2006

Supersedes edition of

1 – Identification of substance/preparation and of the company /undertaking

Identification of the product

Catalogue No: PT-CEA-96

Product name: Carcino Embryonic Antigen ELISA Kit

Use of substance/preparation: In vitro Diagnosis used only

Company / undertaking identification: Pishtaz teb Diagnostic Ltd

2 – Composition /information on ingredients

Reagents: Kit reagents are not considered to be hazardous. They are mixture that contains less than 1 % hazardous chemical and less than 0.1 % carcinogenic chemicals.

Antibody Coated microwell

Polystyrene well coated with monoclonal anti human CEA (CAS number N/A).

Enzyme conjugate

Monoclonal anti human CEA labeled with HRP, buffer contains protein as stabilizer (CAS number N/A) sees MSDS for protein. Contain Kathon CG as preservative (CAS number 55965-84-9)

Stop Solution

1 molar hydrochloric acid solution (CAS # 7647-01-0)

Wash Solution

Phosphate Buffer salt Solution contain 0.05 % Tween 20(CAS # 900-64-5) as detergent and Kathon CG as preservative (CAS number 55965-84-9)

Chromogen Substrate Solution

Tetramethyl Benzidine (CAS # 54827-17-7) 0.05 % w/v

Hydrogen Peroxide (CAS # 7722-84-1) 0.08 % v/v

Standard set

Human CEA with different concentration in buffer contain protein as stabilizer (CAS number N/A) and 0.05% Kathon CG as preservative (CAS number # 55965-84-9)

Control Sera

Certain amount of Human CEA diluted buffer contain protein as stabilizer (CAS number N/A) contain 0.05% Kathon CG as preservative (CAS number 55965-84-9)

Assay Buffer

Phosphate buffer solution with protein as stabilizer and Kathon CG as preservative

3 – Hazards identification

HMIS Rating:

Health: 0 Flammability: 0 Reactivity: 0

NFPA Rating:

Health: 0 Flammability: 0 Reactivity: 0

Routes of entry: Avoid ingestion and inhalation; avoid contact with skin, eyes.

Potential Acute Health Effects: May cause skin, eye, or lung irritation.

Carcinogenic Effects Data: Not available

Chronic Effects of Overexposure: Not available

Solubility in Water: Liquids readily miscible in water

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4 – First aid measures

Remove contaminated clothing and wash before reuse.

Skin: In case of contact, immediately wash skin with soap and copious amounts of water.

Eyes: In case of contact, immediately flush eyes with copious of water for at least 15 minutes.

Inhalation: If inhaled, remove to fresh air

Swallowing: If swallowed, wash out mouth with water provided person is conscious .call a physician.

5 – Fire – fighting measures

Flammability: May be combustible at high temperature

Flash point: Not available

Extinguishing media: use dry chemical

Special fire fighting procedures: Wear self contained breathing apparatus and protective clothing.

Unusual fire and explosion hazards: None known

6 – Accidental release measures

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7 – Handling and storage

No further requirement

Tightly closed. Below + 8 °C

8 – Exposure control / personal protection

Wear chemical resistant gloves, safety, other protective clothing

Safety shower, eye bath

Mechanical exhaust required

Do not breathe dust

Avoid contact with eyes, skin and clothing

Avoid prolonged or repeated exposures

Wash thoroughly after handling

Keep tightly closed

Store all components dry

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9 – Physical and chemical properties

Antibody coated microwells

Physical state and appearance: solid (microwells)

Enzyme conjugate, Standard set, control serum

Physical state: solution

Appearance: Enzyme conjugate (red), Standard set (pale green to deep green due to concentration), Low Control serum (yellow) , High control serum (green) , Assay buffer (blue)

20x Wash buffer, Stop solution, Chromogen substrate

Physical state and appearance: Clear solutions

10 – Stability and reactivity

Stability and Reactivity: The product is stable

Conditions to avoid: not available

Material to avoid: not available

Hazardous Decomposition Product: not available

11 – Toxicological information

Toxicological data (Toxicity to animal and chronic effects on human) for the reagent mixture are not available and have not yet been thoroughly investigated. May cause slight irritation in case of eye contact or inhalation.

12 – Ecologic information

Water pollution hazard rating: 1

13 – Disposal consideration

Waste must be disposed of in accordance with federal, state and local environmental control.

14 – Transport information

Is not affected by the current rules for transport of hazardous goods
(GGVS/ADR, GGVE/RID, IMDG, IATA/ICAO)

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15 – Regulatory information

European information:

S 1 / 2 keep under lock, out of reach of children

S 28 after contact with skin wash immediately with plenty of water

S 36 Wear suitable protective clothing

S 26 In case of contact with eyes rinse immediately with plenty of water and medical advice.

R 36/38 irritating to eyes and skin

16 – Other information

The above mentioned information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Pishtaz Teb Diagnosis shall not be held liable for any damage resulting from handling or contact with above product.
