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Material Safety Data Sheet (MSDS)

Product Identity Information

Product Name: BD-3 ELISA Kit (Human): 96 Wells

Product Catalog Number: OKAG00004

Potential Hazards

Reagents: Kit reagents are not considered to be hazardous according to 29CFR 1910.1200(d). They are mixtures that contain less than 1% hazardous chemicals and less than 0.1% carcinogenic chemicals.

Detection Antibody: See MSDS for Antibodies.

10x Wash Buffer, Detection Antibody Diluent, Protein Standard Diluent and Sample Diluent:

Kathon CG/ICP. See MSDS for Kathon CG/ICP (Sigma-Aldrich).

Ready-to-Use Substrate: Tetramethylbenzidine (TMB) substrate-chromagen.

Stop Solution: Sulfuric Acid (H₂SO₄).

Health Hazard Data

Emergency Overview: Kathon CG/ICP and Sulfuric Acid are highly dangerous, corrosive substances which may cause severe burns and irritation to the affected area. All other materials included in this kit are relatively inert.

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

Threshold Limit Value and Source: The chemical, physical and toxicological properties of these components have not been thoroughly investigated. Allergy-prone individuals should be particularly cautious with proteins or other materials of biological origin.

Carcinogenic Effects Data: Not available. **Chronic**

Effects of Overexposure: Not available.

Solubility in Water: Liquids readily miscible in water.

Emergency and First Aid Procedures

Swallowing: If any component of this kit is swallowed, wash mouth thoroughly and drink a large amount of water. If vomiting or not breathing, consult a physician or Poison Control Center immediately.

Skin: If any component of this kit contacts the skin, immediately wash the affected area thoroughly with soap and copious amounts of water. If irritation persists, contact a physician.

Inhalation: If any component of this kit is inhaled, move the affected individual to an area with fresh air. If not breathing, perform CPR and get immediate medical attention.

Eyes: If any component of this kit contacts the eyes, immediately flush the eye with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. If irritation persists, contact a physician immediately.

Fire and Explosion Hazard Data

Flammability: May be combustible at high temperatures.

Flash Point: Not available.

Extinguishing Media: Use dry chemicals.

Unusual Fire and Explosion Hazard: None known.

Physical Data

Detection Antibody: Lyophilized powder/film with non-reactive stabilizer.

Protein Standard: Lyophilized powder/film with non-reactive stabilizer.

Ready-to-Use Avidin-HRP Conjugate Solution: Clear solution.

Ready-to-Use Substrate: Clear solution.

Stop Solution: Clear solution.

Note: Boiling points, vapor pressure, vapor density, specific gravity, melting point and evaporation rate not available.

Stability and Reactivity

Stability and Reactivity: Product stable at 4°C or lower.

Conditions to Avoid: Not available.

Materials to Avoid: Not available.

Hazardous Decomposition Products: Not available.

Toxicology Information

Toxicology to Animals: LD50/LC50, not available.

Chronic Effect on Humans: Not available.

Other Toxic Effects on Humans: May cause slight irritation in case of eye contact, inhalation or ingestion.

Spill and Leak Procedures

In event of spill or leak:

1. Wear lab coat, chemical resistant gloves and safety glasses.
2. Wipe up all spills with a suitable absorbent and dispose properly.
3. Wash down the spill site.
4. Dispose in accordance with all federal, state and local regulations.

Special Precautions

1. The compounds in this kit are only for research use to personnel familiar with the toxicology of organic chemicals.
2. The compounds in this kit are in milliliter and microliter quantities, only for use in biological research.