



Material Safety Data Sheet

1. Product Identification

- Product: Dog C3 Quantification ELISA Kit
- CAS No: N/A
- Catalog No: E-40C3
- Product Use: For Research Use Only, NOT for Diagnostic Use. For In Vitro Use Only. Not for Human or Animal Consumption.

2. Composition/Information on Ingredients

The contents in the kit components of ingredients listed as hazardous are given below to the best of our knowledge. At the supplied concentrations stated below, none of the hazardous reagents are present in an amount that qualifies the kit components as hazardous in accordance with 29 CFR 1910.1200. However exposure to large amounts and/or ingestion can potentially be hazardous.

Kit Component	Ingredient	Concentration	CAS #	Classification (Pure ingredient)	Classification (Kit Component)
Antibody coated microwells	--	--	--	--	--
Calibrator	Sodium Azide	≤0.025%	26628-22-8	T+,N; R28-32-50/53	N/A
HRP Conjugate	Thimerosal	<0.004%	54-64-8	T+,N; R26/27/28, R33 R50/53	N/A
5X Diluent	ProClin 300	0.5%	Not Available	R-T-K	N/A
20X Wash Buffer	ProClin 300	0.05%	Not Available	R-T-K	N/A
TMB Substrate	3,3',5,5'-Tetramethylbenzidine	≤0.05%	54827-17-7	Xi, R36/37/38,S26-36	N/A
Stop Solution	Sulfuric Acid	0.3M	7664-93-9	C; R35	N/A

3. Hazard Identification

Emergency Overview

- Sodium Azide-Information on toxicity at the supplied concentration of sodium azide is unavailable. The following information pertains to pure sodium azide in powder form.
 - Very toxic by inhalation, in contact with skin and if swallowed.

- Readily absorbed through skin.
 - Reacts with lead and copper to form highly explosive metal azides
 - Heating may cause an explosion.
 - Contact with acids liberates very toxic gas.
 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Thimerosal- Information on toxicity at the supplied concentration of thimerosal is unavailable. The following information pertains to pure in powder form.
 - Very toxic by inhalation, in contact with skin and if swallowed.
 - Danger of cumulative effects.
 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- ProClin 300-Information on toxicity at the supplied concentration of ProClin 300 is unavailable. The following information pertains to pure ProClin 300.
 - Corrosive
 - May cause burns or permanent eye injury
 - May cause sensitization of susceptible persons by skin contact
- 3,3',5,5'-tetramethylbenzidine
 - May cause eye, skin and respiratory tract irritation
 - May be harmful if swallowed or inhaled
- Sulfuric Acid-Information on toxicity at the supplied concentration of sulfuric acid is unavailable. The following information pertains to 99% sulfuric acid.
 - Toxic by inhalation.
 - Causes severe burns.
 - Toxic if swallowed.

4. First Aid Measures

- Ingestion: If any component of this kit is swallowed, wash mouth with water provided person is conscious. Call a physician or poison control.
- Inhalation Exposure: If any component of this kit is inhaled, remove to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, give oxygen. Call a physician.
- Skin Exposure: If any component of this kit contacts the skin, immediately flush with copious amounts of water and wash with soap and water. Remove contaminated clothing and shoes. Call a physician if irritation or discomfort develops.
- Eye Exposure: If any component of this kit contacts the eyes, flush the eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. Call a physician.

5. Fire Fighting measures

- Fire fighting media should be selected depending on the surrounding materials and equipment. Non-combustible. Ambient fire may liberate hazardous vapors. It is recommended that firefighters wear protective gear and self-contained breathing apparatus to limit their exposure.

6. Accidental Release Measures

- Ventilate area. Wear appropriate protective gear. Wipe or pick-up materials, dispose of in accordance with federal, state, and local regulations. Wash spill site thoroughly with soap and water after material pick up is complete.

7. Handling and Storage

- This kit should be stored as recommended on the product label, refer to the storage section of the kit insert for further information. This kit should only be handled and used by qualified, trained professionals. General good laboratory practice should be maintained. Handle calibrators and unknown samples as potentially infectious.

8. Exposure Controls/Personal Protection

- Engineering Controls: Use with adequate ventilation. Ensure that eyewash stations and safety showers are close to the workstation location.
- Individual Protection Measures: Wear suitable protective clothing and appropriate footwear as protection against splashing or contamination. Wear approved safety goggles and protective gloves. Wash hands before work breaks and on finishing the work.

9. Physical and Chemical Properties

- Physical State and Appearance:
 - Antibody coated microwells- solid
 - Calibrator-white solid
 - HRP Conjugate-light brown liquid
 - 5X Diluent-green liquid solution
 - All other components-Clear liquid solution
- Solubility: All components are soluble in water except the antibody coated microwells
- Odor: None detectable
- Boiling Point: Not Available
- Melting point: Not Available
- Vapor Pressure: Not Available
- Vapor Density: Not Available
- Evaporation Rate: Not Available
- pH: Neutral except for Stop Solution (pH ~0.9)

10. Stability and Reactivity

- Chemical Stability: This product is stable until the expiration date indicated on the kit label under the recommended storage conditions.
- Reactivity: No data available
- Conditions to avoid: Extreme temperatures
- Materials to avoid: Generally use only clean glass and plastic suitable for laboratory use for handling the kit components. Note that individual ingredients are incompatible with strong oxidizing agents, metals and strong bases.

11. Toxicological Information

- Because of the small size of the containers and the low concentrations of hazardous ingredients, the toxicological risks are minor. Toxicological experiments have not been done on the kit components.

12. Ecological Information

- Not Available

13. Disposal Considerations

- For every component, waste must be disposed according to federal, state, and local environment control regulations.

14. Transport Information

- No special transport regulations

15. Regulatory Information

- No kit component contains a hazardous ingredient in an amount that requires identification and labeling.

16. Other Information

- The above information is believed to be correct but does not purport to be all-inclusive and is intended to be used only as a guide. ICL, Inc. shall not be liable or responsible in any way for use of either this information or the material supplied. Final determination of suitability and safe use of these materials is the sole responsibility of the user. Disposal of hazardous material may be subject to federal, state or local laws or regulations.

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