CHAMELEON®
DETECTING THE INVISIBLE™

Operating Instructions
Diborane Cassette
(Part Number: 084040)

Applications:

The Chameleon is the only hands-free, power-free, chemical detector for gases and vapors **in air,** allowing First Responders, Firefighters, EMS, Police Officers and Military to detect the presence of hazardous chemicals. No liquid sample required. The Chameleon may even be immersed in salt water or fresh water without affecting its performance. Developed under funding by the United States Marine Corps, the Chameleon is ideal for users to screen unknown hazards in their environment.

Diborane is used as a reducing agent, rocket fuel, semiconductor dopant, catalyst and in organic synthesis. It is a colorless gas at room temperature with a repulsive, sweet odor. Short-term exposure may cause a sensation of tightness of the chest, shortness of breath, cough and wheezing. These signs and symptoms can occur immediately or may be delayed for up to 24 hours.

Specifications:

The chemical sensor in the diborane cassette shows an easy to see color change. Half of the sensor window will change color as shown in the example below:

Unexposed Exposed

Concentration	Reaction Time
7.5 ppm	30 seconds

Interferences:

The diborane cassette was exposed to saturated vapor concentrations of toluene, bleach, DEET, gasoline, diesel fuel and JP-8 jet fuel for one hour. No false positive or false negative readings were observed.

Cross Sensitivity:

Ammonia produces a blue color in the exposure window but does not affect the sensitivity to diborane. Exposure of the cassette to hydrogen sulfide results in a false negative. No other interferences are known.

Operating Instructions:

1. The expiration date marked on the packaging assumes storage at 77 °F. Short term storage temperatures between 35 °F and 140 °F are acceptable.
2. At time of use - remove cassette from its protective pouch.
3. Holding cassette with text facing up, slide cassette into Chameleon armband until the cassette firmly snaps into the armband.
4. Periodically view the cassette to observe color change in half of the sensor window.
5. Discard cassette after color change is observed or after 24 hours of use.
6. DO NOT use cassette beyond 24-hour service life.

WARRANTY EXCLUSIONS AND LIMITATION OF LIABILITY

IF THE USER DOES NOT ACCEPT THE FOLLOWING TERMS, THE USER SHOULD NOT USE THE CHAMELEON CASSETTES AND ARMBAND.

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Warning: Keep out of reach of children, if ingested seek medical attention immediately.

US Patent No. 6,284,198 and other patents pending

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