

**Operating Instructions
High pH (Base) Cassette
(Part Number: 084020)**

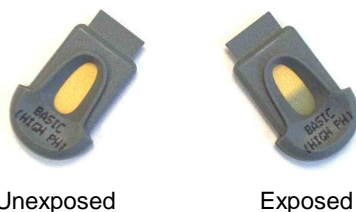
Applications:

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.

Common basic gases include **ammonia, hydrazine, 1,1-dimethylhydrazine, methylamine and allylamine**. Exposure to basic gases can occur in many situations. Storage tank leaks in chemical plants and during transportation result in exposure to basic vapors. According to the New York State Hazardous Substances Emergency Events Surveillance Project, 24% of the events associated with First Responder injuries were due to exposure to ammonia. Ammonia's primary uses are as an agricultural fertilizer and refrigerant in cold storage facilities. Ammonia is also an ingredient in the manufacture of gunpowder and sulfuric acid as well as illegal methamphetamines.

Specifications:

The chemical sensor in the high pH (base) cassette shows an easy to see color change. Half of the sensor window will change color as shown in the example below:



| Description | Concentration | Reaction Time |
|----------------|---------------|---------------|
| High pH (Base) | pH > 8.5 | 1 - 3 minutes |

Interferences:

The High pH (Base) 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. Repeated immersion in a layer of oil/fuel on top of salt water had no effect on the performance of the High pH (Base) cassette.

Operating Instructions:

1. Expiration date marked on packaging is based on storage at or below 77°F/25°C. Storage at higher temperatures reduces shelf life.
2. Product shelf life when stored at 122°F/50°C is thirty days.
3. At time of use - remove cassette from its protective pouch.
4. Holding cassette with text facing up, slide cassette into Chameleon armband until the cassette firmly snaps into the armband.
5. Periodically view the cassette to observe color change in half of the sensor window.
6. Discard cassette after color change is observed or after 24 hours of use.
7. 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 CASSETTE AND ARMBAND.

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

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