

Chameleon Detection Kit Instructions

IMPORTANT NOTES:

- Load cassettes just prior to use. Cassettes have a 24-hour service life. Discard all cassettes after use.
- Please check expiration date on cassette packaging prior to use. Do not use expired cassettes.
- Store in cool location (77°F is optimum). Short term storage between 35°F and 140°F is acceptable.



STEP 1:
Take 1 armband and 1 prepackaged bag of cassettes.



STEP 2:
Open bag and remove foil pouches containing cassettes.



STEP 3:
Tear each foil pouch at notch and remove cassette.



STEP 4:
Insert each cassette with text facing up into Chameleon armband.



STEP 5:
Slide armband over wrist with cassettes facing up. Adjust to fit securely.



STEP 6:
Check your armband for color change every few minutes during mission.

SINGLE COLOR in cassette window shows **NO EXPOSURE** to toxic chemical.



TWO COLORS in cassette window shows **EXPOSURE** to toxic chemical.



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Sensor	Toxic Chemical	Conc. (ppm)	Time (min)	Physical Characteristics of Toxic Chemical ¹	Physical Symptoms of Exposure to Toxic Chemical ¹	Uses and Applications of Toxic Chemical ¹
		PEL 1/2 IDLH				
Acid (low pH)	Hydrogen Chloride	5	30	Colorless, corrosive, non-flammable gas with pungent odor.	Inflammation of nose, throat and Larynx; coughing, burning of throat and choking.	Used in cleaning, pickling, electroplating metals, pool maintenance and tanning leather. Also produced during the burning of plastic.
		25	5			
Base (high pH)	Ammonia	50	3	Colorless gas with very pungent odor.	Eye, nose and throat irritation, chest pain, pulmonary edema and skin burns.	Manufacture of methamphetamines, nitric acid, explosives, synthetic fibers and fertilizers.
		150	1			
Chlorine/Fluorine	Chlorine	1	25	Greenish/yellow gas with suffocating odor.	Burning of eyes, nose and mouth; coughing and choking; eye skin burns.	For bleaching fabrics, purifying water, disinfecting and manufacturing of syn. rubber and plastics.
		5	4			
Hydrazine	Hydrazine	1	30	Colorless oily liquid that fumes in air. Odor resembles ammonia.	Irritation of eyes, nose and throat, temporary blindness; nausea.	Used to make agricultural chemicals and spandex. Used as rocket fuel.
		25	5			
Hydrogen Cyanide	Hydrogen Cyanide	10	10	Colorless, poisonous gas with a faint, bitter almond-like odor.	Headache, vertigo, nausea, vomiting, paralysis, unconsciousness and convulsions.	Used as a fumigant, liberated during use of cyanide in metal treatment operations.
		25	2			
Hydrogen Fluoride	Hydrogen Fluoride	3	30	Colorless gas that fumes in air.	Corrosive to skin and eyes. Severe burns may not be painful/visible for several hours.	Catalyst in the aluminum industry; Used to produce PTFE and in dye chemistries.
		15	3			
Hydrogen Sulfide	Hydrogen Sulfide	20	7	Flammable poisonous gas with characteristic odor of rotten eggs.	Salivation, GI disturbances, giddiness, sweating and fatigue.	Used to produce sulfur and sulfuric acid and in mining industry. Also used in chemical suicide.
		50	3			
Iodine	Iodine	0.1	20	Bluish black scales or plates, produces an orange stain.	Eye and nose irritant, lacrimation, headache, skin burns and chest tightness.	Manufacture of germicides, antiseptics and methamphetamines.
		1	5			
Nitrogen Dioxide	Nitrogen Dioxide	5	10	Reddish-brown gas with an irritating Odor.	Insidious gas; inflammation of lungs leading To pulmonary edema and possible death.	Produced by internal combustion engines, thermal power stations, and butane gas heaters.
		10	5			
Phosgene	Phosgene	0.1	30	Colorless highly toxic gas with odor reminiscent of moldy hay.	Choking, coughing, painful breathing - may be a symptom delay up to 24 hours.	Preparation of organic chemicals, as a war gas and burning car radiators containing Freon.
		1	5			
Phosphine	Phosphine	0.3	16	Poisonous gas with odor of decaying fish.	Nausea, vomiting, abdominal pain and diarrhea, thirst and chest pressure.	Used as an agricultural fumigant and in the production of methamphetamines.
		25	2			
Sulfur Dioxide	Sulfur Dioxide	5	10	Colorless, non-flammable gas with a strong suffocating odor.	Irritation of eyes, nose and throat, choking, coughing, eye and skin burns.	Preserving fruits and vegetables, disinfectant in breweries and food factories; bleaching.
		50	3			

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