

## SafeAir® Gas Monitoring Badges

Immediate visual indication when a specific chemical hazard is present

- Low cost and disposable
- Ideal for daily exposure screening

Badges require minimal training to use and require no calibration, extra equipment, or analysis. Badges attach easily to shirts or labcoat collars—order badge clips separately below.

Exclamation mark warns of the presence of targeted hazard.



86563-02

### Specifications & Ordering Information

Catalog number*	Gas	Threshold level (ppm x hr)	Minimum detectable concentration in 8 hours (ppm)	Maximum recommended sampling time	Minimum recommended sampling time	Cross sensitivity	Price/box of 50
KH-86563-00	Ammonia	4	0.50	48 hours	15 minutes	Primary aliphatic amines	
KH-86563-01	Carbon dioxide	8000	1000	10 hours	15 minutes	Acid vapors	
KH-86563-02	Carbon monoxide	7	1	10 hours	15 minutes	Alkenes, H <sub>2</sub> , H <sub>2</sub> S	
KH-86563-03	Chlorine	0.18	0.023	48 hours	15 minutes	Br <sub>2</sub> , HCl, I <sub>2</sub>	
KH-86563-04	Formaldehyde	0.4	0.05	10 hours	15 minutes	Acrolein	
KH-86563-05	Hydrogen sulfide	2	0.25	48 hours	15 minutes	None known	
KH-86563-06	Mercury	Front: 0.1 mg/m <sup>3</sup> x hr	Front: 0.013 mg/m <sup>3</sup>	48 hours	15 minutes	Strong oxidizers	
		Back: 0.2 mg/m <sup>3</sup> x hr	Back: 0.03 mg/m <sup>3</sup>				
KH-86563-07	Ozone	0.05	0.006	48 hours	15 minutes	H <sub>2</sub> O <sub>2</sub> , > 1 ppm NO <sub>2</sub>	
KH-86563-08	Sulfur dioxide	0.2	0.025	48 hours	15 minutes	None known	

\*All items must ship via 2-day delivery carrier

KH-86563-60 Badge clips. Pack of 10

## ChromAir® Gas Monitoring Badges and Color Comparators

Six color-change levels to better isolate exposure readings



86563-23



After badge is inserted into the color comparator, move the color scale insert until color matches color formed on badge.

Exposed badges give immediate results—no waiting for lab reports!

**Gas Monitoring Badges** are lightweight colorimetric—ideal for both personal and area monitoring. Designed to accurately provide immediate results while minimizing the effects of humidity and air velocity. Each ChromAir badge shows six exposure levels<sup>1</sup>. The scale printed on the badges and comparators is based on exposure dose (ppm x hr)<sup>1</sup>. Badges attach easily to shirt or lab coat collars—order badge clips separately below.

**Color Comparators** increase the range and resolution of your ChromAir badge. The color scales on the comparator identically match the colors formed on the badges.

### Technical info

To determine the average concentration, locate the highest cell with a color change and divide the corresponding dose level (ppm x hr) by the sampling time in hours. Example: If the sampling time is 2 hours and the badge reads 40 ppm x hr, the average concentration is determined by 40 ppm x hr/2 hr. Therefore, the average concentration is 20 ppm.

### Specifications & Ordering Information

Gas	Gas monitoring badges						Color comparators		
	Catalog number*	Range (ppm x hr)	Minimum detectable concentration in 8 hours (ppm)	RH (%)	Cross sensitivity	Price/box of 10	Catalog number*	Range (ppm x hr)	Price/ea
Acetone	KH-86563-20	20 to 24,000	2.50	15 to 95	NH <sub>3</sub> , MEK, MIBK, MPK		—	—	—
Ammonia	KH-86563-21	4 to 300	0.50	15 to 90	RNH <sub>2</sub>		KH-86563-57	3 to 600	—
Carbon monoxide	KH-86563-22	10 to 525	1.25	19 to 85	Alkenes, H <sub>2</sub> , H <sub>2</sub> S		KH-86563-50	4 to 630	—
Chlorine	KH-86563-23	0.4 to 13	0.05	35 to 85	Br <sub>2</sub> , I <sub>2</sub> , HCl		KH-86563-51	0.2 to 20.0	—
Formaldehyde	KH-86563-24	0.3 to 12	0.04	30 to 80	Acrolein		KH-86563-52	0.3 to 23.0	—
Glutaraldehyde <sup>††</sup>	KH-86563-25	STEL: (15 min)	0.04 to 0.95	25 to 85	None known		KH-86563-53	0.04 to 8.0	—
Hydrogen sulfide	KH-86563-26	1 to 240	0.13	33 to 90	None known		KH-86563-54	0.4 to 350.0	—
Mercury <sup>††</sup>	KH-86563-27	0.15 to 1.4 mg/m <sup>3</sup> x hr	0.02 mg/m <sup>3</sup>	15 to 87	Strong oxidizers		KH-86563-55	0.12 to 3.6	—
Methanol	KH-86563-28	27 to 3200	3.38	25 to 90	ROH, DMS		—	—	—
Methyl ethyl ketone	KH-86563-29	18 to 21,600	2.25	15 to 95	NH <sub>3</sub> , acetone, MIBK, MPK		—	—	—

\*All items must ship via 2-day delivery carrier. <sup>†</sup>Glutaraldehyde and mercury badges have five levels. <sup>††</sup>Glutaraldehyde STEL badge = ppm; mercury badge scale = mg/m<sup>3</sup> x hr

KH-86378-60 Badge clips. Pack of 10