

## TECHNICAL INSERT

Item No	502/506	ChemChip™ Monitor for Ethylene Oxide	Prepared by	NLK
Edition	2-25-97		Approved by	CRM

The ChemChip™ Personal Monitor is designed to measure exposure to chemicals in order to demonstrate workplace compliance with Permissible Exposure Limits (PELs) and Short Term Exposure Limits (STELs) defined by the Occupational Safety and Health Act of 1970 and Title 29 Code of Federal Regulations.

To use, Monitor is removed from its hermetically-sealed pouch and assembled into Holder which is attached to collar or lapel. When sampling time is complete, Monitor is removed from Holder, placed in Return Envelope and sent to the Laboratory for analysis. Results are documented in a written report.

This **Technical Insert** contains product specific information on use and storage.

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<b>Sampling Medium:</b>	Ethylene oxide responsive reagent system based on the reagent 4-(p-nitrobenzyl) pyridine	
<b>Analyte(s) Sampled:</b>	Ethylene oxide	
<b>Analytical Method:</b>	Reaction with amine; colorimetric analysis	
<b>Recommended Sampling Time (RST):</b>	506: 15 minutes	502: 8 hours
<b>Sample Capacity:</b>	506: 60 ppm	502: 6.0 ppm
<b>Detection Limit (DL):</b>	506: 1 ppm	502: 0.1 ppm
<b>Interfering Substance(s):</b>	Propylene oxide interferes when present at $\geq 3$ ppm. Alkylating agents such as methyl bromide and epoxides can also interfere. Phenol disinfectants, alcohols, acetone, CFC's, HCFC's and formaldehyde do not interfere when tested at their PELs.	
<b>Effect of Temperature:</b>	Effect on result $\leq 5\%$ within 67 - 73 °F.	
<b>Effect of Humidity:</b>	Functions as claimed within 10 - 90% RH.	
<b>Accuracy (MTE):</b>	Meets or exceeds OSHA requirements for accuracy: Maximum Total Error (MTE) $\leq 25\%$ at PEL; $\leq 35\%$ at STEL and action level.	
<b>Storage Conditions:</b>	Store under refrigerated conditions for maximum shelf life. Do Not Use after Expiration Date printed on pouch.	
<b>Recommended Holding Time (RHT):</b>	Monitors must be received by Lab within one (1) week after sampling.	
<b>IMPORTANT:</b>	Warranty valid only if <b>Instructions for Use</b> are followed.	
<b>WARNING:</b>	Wash affected area if Sampling Medium is contacted. Refer to MSDS for handling Developer Solution.	

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For detailed directions, see **Instructions for Use** included in each package of Monitors. Badge Holders and Electronic Reader are sold separately.

TOLL-FREE 1-800-833-1258

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