



Operating Instructions Glutaraldehyde Monitor (Part Number: 380017)

Introduction

Glutaraldehyde is a colorless liquid with an irritating odor. It has an odor threshold in the ppb level. Glutaraldehyde may be fatal if inhaled, swallowed or absorbed through the skin. Symptoms of exposure may include burning sensations, headache, coughing, shortness of breath, nausea and vomiting. To the best of our knowledge, toxicological, chemical and physical properties have not been thoroughly studied. NIOSH STEL is 0.2 ppm.

Glutaraldehyde is used extensively in the medical field. It is used in hospitals for cold sterilization of medical supplies and instruments. Glutaraldehyde is also used as a disinfectant in urology, endoscopy and dental departments.

Principle of Operation

The ChromAir passive monitor is a patented direct-read autogenic exposimeter. The device is constructed from five cells attached on one side to a flat indicator layer and on the other side to a series of different diffusive resistances. Glutaraldehyde vapor diffuses to the cells through the different diffusive resistances and reacts with the indicator layer, producing color change from pink to violet. The color produced on the indicator layer is a direct measure of the concentration in ppm. Visual color comparison is achieved by observing the formation of the violet threshold color on the individual cell and reading the corresponding concentration.

Physical Specifications:

Dimensions	10.5 cm x 5.5 cm x 0.25 cm
Weight	11 g
Refrigerated shelf life	1 year
Store badges refrigerated at all times.	
Color change	pink to violet

Sampling Parameters:

Exposure range	0.04 - 0.95 ppm
Relative humidity range	25% - 85%
Face velocity range	10 - 165 cm/sec
Temperature range	15°C - 35°C (59°F - 95°F)
Light effect - UV (direct sunlight)	no effect
Light effect - visible	no effect
Mean coefficient of variation	±6.8
Bias at ambient conditions	1.4%
Known Interferences:	No interferences are known

Operating Instructions

1. Allow the badge to warm to room temperature prior to removing the badge from its protective pouch.
2. Enter all pertinent information on the I.D. label before monitoring is started (i.e. name, location, date and start time).
3. Remove the scavenger strip from the front of the badge.
4. For personnel monitoring, attach the badge near the user's breathing zone (i.e. collar) with the front side exposed to the surrounding atmosphere.
5. For area monitoring, attach the badge to a stand and mount in a centralized area with the front side exposed to the surrounding atmosphere.
6. Expose the badge 15 minutes.
7. At the end of the exposure period (15 minutes), **return the badge to its original pouch and let stand for 45 minutes at room temperature to allow complete development of color. Read the badge no later than 3 hours after exposure.**
8. At the end of the development period, locate the highest level cell with violet threshold color and read the corresponding average concentration from the scale.

WARRANTY EXCLUSIONS AND LIMITATION OF LIABILITY

IF THE USER DOES NOT ACCEPT THE FOLLOWING TERMS, THE USER SHOULD NOT USE THE CHROMAIR BADGES AND COLOR COMPARATORS.

Seller warrants that, for the lesser of one (1) year or the shelf-life provided on the Seller's product, its packaging or its literature, its products shall conform to the description of such products as provided on the Seller's product, its packaging or its literature. **THIS WARRANTY IS EXCLUSIVE, AND SELLER MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.** Seller's warranties made in connection with this sale shall not be effective if Seller has determined, in its sole discretion, that Buyer has misused the products in any manner, has failed to use the products in accordance with safe industry standards and practices, or has failed to use the products in accordance with Seller's written operating instructions, or other instructions furnished by Seller to Buyer.

Seller's sole and exclusive liability and Buyer's exclusive remedy with respect to products to Seller's satisfaction to be defective or nonconforming shall be replacement of such products without charge or refund of the purchase price, in Seller's sole discretion, upon the return of such products in accordance with Seller's instructions. All claims must be brought within one (1) year of shipment, regardless of their nature.

SELLER SHALL NOT IN ANY EVENT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY KIND RESULTING FROM ANY USE OR FAILURE OF THE PRODUCTS, EVEN IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE INCLUDING, WITHOUT LIMITATION, LIABILITY FOR LOSS OF USE, LOSS OF WORK IN PROGRESS, DOWN TIME, LOSS OF REVENUE OR PROFITS, FAILURE TO REALIZE SAVINGS, LOSS OF PRODUCTS OF BUYER OR OTHER USE OF ANY LIABILITY OF BUYER TO A THIRD PARTY ON ACCOUNT OF SUCH LOSS, OR FOR ANY LABOR OR ANY OTHER EXPENSE, DAMAGE OR LOSS OCCASIONED BY SUCH PRODUCT INCLUDING PERSONAL INJURY OR PROPERTY DAMAGE UNLESS SUCH PERSONAL INJURY OR PROPERTY DAMAGE IS CAUSED BY SELLER'S GROSS NEGLIGENCE.

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



www.morphtec.com
©2017, Morphix Technologies
All rights reserved
Publication Number: 03-380017A.12-0819
US Patent Number: 5,364,593