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The National Personal Protective Technology Laboratory (NPPTL)

MultiVapor™ Version 2.2.6 Application

DHHS (NIOSH) Publication No. 2010-124C (supersedes 2007-129C)

Updated April, 2024

MultiVapor™ has been updated to resolve the errors users experienced with a missing MSSTDFMT.DLL file, and other minor typographical errors.

Note: due to the dated nature of this program, Version 2.2.5 will still be reflected when downloading and opening the software. NIOSH is working to update the software graphics to reflect the 2.2.6 version.

MultiVapor™ is a computer tool for estimating breakthrough times and service life of air-purifying respirator cartridges manufactured to remove toxic organic vapors (OV) from breathed air. It can also be used for larger filters and for carbon beds of any size prepared for laboratory studies. MultiVapor 2.2.5 was updated in June 2018. This latest version incorporates 26 new compounds, including CN, HDMI, and MMA. The library now contains over 750 compounds.

A breakthrough time is the time following the first and continuous use of a cartridge after which the user of the cartridge could be exposed to a selected concentration of a harmful vapor. This is the consequence of the cartridge being used up. Service life is the breakthrough time with, possibly, a safety factor applied.

MultiVapor™ is intended to help an industrial hygienist or other qualified person set cartridge change-out schedules. It is not a substitute for regulatory requirements or professional judgments.

Users must assume full responsibility for any application of the MultiVapor™ computer software. No warranties related to the software are expressed or implied by the National Institute for Occupational Safety and Health (NIOSH) or its contractors. This software is intended to provide estimates based on the latest scientific information. The accuracies of any such estimates will depend in part on the accuracy and validity of the data entered by the user.

Installing the MultiVapor™ Application

MultiVapor™ is designed to install and operate on both 32-bit and 64-bit windows operating systems. You may need administrative privileges on your computer to install this new version. You may also need to delete any previous version of this application before downloading this newer version.

1. Download [MultiVapor Installer](#) to your PC.
2. Once downloaded, double click on the **MultiVapor Installer.exe** and follow the on screen instructions. The instructions listed below reflect the on-screen instructions.
3. The screen, *Welcome to the MultiVapor Setup Wizard* will appear, click **Next** to continue with the installation.

4. Select the radio button next to: **I accept the agreement** once you have read the license agreement to proceed with the installation. Click **Cancel** to exit the application and quit the setup process.
5. The screen, *Select Destination Location* appears. This screen appears with the default C:\Program Files\MultiVapor\ folder location listed. Click the **Next** button to proceed. Select the **Browse** button to select a different location other than the default one listed. Note: At least 2 MB of Free Disk Space is required for the installation of the MultiVapor Application.
6. The screen, *Select the Start Menu Folder* appears, click the **Next** button to proceed. Setup will create the program's shortcuts in the following Start Menu folder: MultiVapor.
7. The screen, *Select Additional Tasks* appears, click the **Next** button to proceed. This will create a desktop icon for the MultiVapor application.
8. The screen, *Ready to Install* appears, click **Install**.
9. The application begins to install. After installation click **Finish**.

Multivapor™ Tutorials

1. [Windows Media Player](#) 
2. [Real Player](#)
3. [PDF Format](#)  [PDF – 24 KB]

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Partly

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