

## **LiquiSmoke Tested Safe**

Please note that only people who are using LiquiSmoke will be exposed to the “raw” product. Even though LiquiSmoke is 100% safe, there may be items in the MSDS sheet that may cause concern. For example, Section IV (First Aid Measures), we are required to give these instructions although the likelihood of a user ever having any of the symptoms does not exist. What is really important on the MSDS sheet is Section III (Hazards Identification). Under “medical condition”, the National Toxicology Program (NTP), the Occupational Safety and Health Administration, (OSHA) and the International Agency for Research on Cancer, (IARC) all list no medical conditions for LiquiSmoke. IARC makes special note that there are no carcinogenic dangers. To put it into perspective, some of the soda you drink can contain items considered carcinogenic; LiquiSmoke does not. You are exposed to greater dangers putting gas in your car or lawn mower than from handling LiquiSmoke.

Once the raw LiquiSmoke is vaporized, it develops different characteristics. We hired a private, nationally recognized laboratory, [Maxim Technologies, Inc](#), who with the help of the [Wisconsin Occupational Health Laboratory](#) tested our smoke. These tests were conclusive, there are NO dangers using LiquiSmoke. In every single category, including carbon monoxide, LiquiSmoke was tested at or well below the OSHA 8 hour Permissible Exposure Limit (PEL). Since it is the smoke your customers may be exposed to, these tests will assure them that there are no health concerns. However, you will need to warn your customers that although the smoke may be safe, it exposes possible infiltration of dangerous sewer gases. They should always be warned to evacuate a premise when smoke is detected.

Finally, we had Maxim test our LiquiSmoke for staining and residue. Again the tests were conclusive; there is no staining and no residue caused by LiquiSmoke. You can rest assured that LiquiSmoke will not ruin furniture or drapery.

## **A Summary of the Scientific Evaluation Reports Produced by Maxim Technologies of Sioux Falls, South Dakota**

During testing conducted by Maxim Technologies, the following facts concerning the smoke generated by LiquiSmoke were determined, under the guidelines set by NIOSH – the National Institute of Occupational Safety and Health and OSHA – the Occupational Safety and Health Administration.

During the tests, [Maxim Technologies](#) collected a sample of the smoke generated by LiquiSmoke in a charcoal tube. The sample was sent to the [Wisconsin Occupational Health Laboratory](#). A “GC Solvent Scan” was conducted to determine if the smoke generated by LiquiSmoke formed any hazardous compounds or conditions. The “GC” scan searched for 107 different hazardous organic compounds. Of the 107 items listed only .01 ppm petroleum distillates was found. The OSHA Permissible Exposure Limit is 500 ppm.

Further testing by Maxim Technologies found that ambient carbon monoxide levels were found to be zero. NIOSH regulations have determined the “8 hour time weighted average” (TWA) for carbon monoxide to be 35 parts per million (ppm). During the duration of the test measurable TWA levels of LiquiSmoke ranged from 4.6 to 7.8 ppm within the OSHA permissible exposure limit (PEL) set by OSHA.

Maxim Technologies also tested for carbon dioxide levels. Ambient levels were found to be at 330 ppm. The level of carbon dioxide during the entire LiquiSmoke test was determined to be 500 ppm. The OSHA permissible exposure limit (PEL) is 5000 ppm.

In addition, testing by Maxim Technologies was also performed to determine if usage of the product left any staining or odor. Residual staining and odor tests were conducted in a closed facility filled with LiquiSmoke. Time interval testing of filter paper samples exposed to LiquiSmoke was examined under a microscope at 40X magnification. In all cases no visible staining was present, along with no odor on any of the filter papers exposed to the smoke.