



Home Air Analysis For: Smith
Home Tested: 123 W. Maple Ave.
Boston, MA 25478

Report Number: 6010
Laboratory ID: 6010 - 2

Sampling Professional: Alex Carter
Air Quality Inspections
1245 Main St. Suite B
Pleasantville, MA 84847

Thank you for using Home Air Check Professional!

If you have questions about your report, please contact your home inspector or air quality professional.

Client Sample ID: Kitchen
Sample Volume (L): 30
Date Sampled: 04/16/2012
Sample Type: TDT 112J

Order Date: 04/18/2012
Scan Date: 04/18/2012
Report Date: 04/20/2012

Formaldehyde Report

Formaldehyde Concentration: 31 ng/L (25 ppb)

Formaldehyde Level: Elevated

Recommendation

Locate and remove formaldehyde sources. Consider discussing this report with your home inspector or air quality professional.

Formaldehyde Exposure Limits

The National Institute for Occupational Safety and Health (NIOSH) has set a recommended exposure limit (REL) of 20 ng/L (16 parts per billion). The Occupational Health and Safety Administration (OSHA) has set a workplace permissible exposure limit (PEL) of 936 ng/L (750 parts per billion). For more information on exposure limits, see this report about Environmental Health.

Formaldehyde Sources

The main sources of formaldehyde are composite or engineered wood products that contain urea-formaldehyde (UF) resins (e.g., particleboard, hardwood plywood paneling, medium density fiberboard). Products that contain phenol-formaldehyde (PF) resin also emit formaldehyde but at lower concentrations (e.g., softwood plywood, flake or oriented strand board). Formaldehyde is also present in other building products such as pre-finished engineered flooring, insulation, glues and adhesives, and paints and coatings, as well as textiles, disinfectant cleaning products and soaps, preservatives, cosmetics, pet care products, bactericides and fungicides. Formaldehyde is also a byproduct of many combustion processes, such as tobacco smoke and fuel-burning appliances (gas stoves, kerosene space heaters and fireplaces).

The resources listed below provide additional information about formaldehyde.

- US Environmental Protection Agency
http://www.epa.gov/iaq/formaldehyde.html
http://www.epa.gov/ttn/atw/hlthef/formalde.html

- Agency for Toxic Substances and Disease Registry (ATSDR)
http://www.atsdr.cdc.gov/toxfaqs/faq.asp?id=219&tid=39

- National Institutes of Health (NIH)
http://www.niehs.nih.gov/health/materials/fact\_sheet\_formaldehyde.pdf
http://toxtown.nlm.nih.gov/text\_version/chemicals.php?id=14
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2855181/

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