To: 'Scott Smith'[ssmith@opflexinventor.com]
From: Durno, Mark
Sent: Tue 8/9/2016 6:20:30 PM
Subject: RE: bacteria and molds-

;;;;;;;;;;;
Thanks. Very informative.

We are at City Hall – North Municipal Building. 1101 S. Saginaw St, Room N101. We are the door closest to the corner of S. Saginaw and 5th.

Mark

Mark Durno

Homeland Security Advisor / Deputy Chief

Emergency Response Branch
U.S. Environmental Protection Agency
25063 Center Ridge Road
Westlake, OH 44145

440-250-1743

From: Scott Smith [mailto:ssmith@opflexinventor.com]
Sent: Tuesday, August 09, 2016 2:06 PM
To: Durno, Mark
Subject: FW: bacteria and molds-

fyi

From: Judith Zelikoff <Judith.Zelikoff@nyumc.org>
Date: Monday, August 8, 2016 at 6:21 PM
To: Scott Smith <ssmith@opflexinventor.com>
Subject: bacteria and molds-

Hi Scott, Certain bacteria can produce acetone through fermentation metabolism. A particular species of Clostridium is well known to due this through anaerobic (without oxygen metabolism).

Some species of bacteria and molds produce "microbial volatile organic compounds (mVOCs). Many of these emitted chemicals are identical to those originating from solvent-based building materias, including alcohols, aldehydes, ketones, hexane, methylene chloride , benzene and acetone. Some microorganisms can also produce ammonia and other nitrogen-containing compounds. Health effects from mVOCs have not been specifically studied but are implicated in some health effects and odor-related health complaints (Biological Risk Engineering Handbook, 2003).

Judith Zelikoff, Ph.D.
Professor, Environmental Medicine
Director, Community Outreach

NYU Global College of Public Health, Associate Professor/Affiliated Faculty
New York University School of Medicine, Department of Environmental Medicine
57 Old Forge Road, Tuxedo, NY 10987
Tel: 845-731-3528
Fax: 845-351-5472
Email: judith.zelikoff@nyumc.org

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