



COMPLIANCE & PREVENTION

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Air Regulation Updates

New Metal Plating and Polishing Regulation

Metal platers and polishers should be aware of federal regulations that could affect operations. These regulations are referred to as Subpart 6W of the National Emission Standards for Hazardous Air Pollutants (NESHAPs). Facilities regulated are those involved in plating or polishing metals that contain chromium, lead, manganese, nickel or cadmium. Regulated facilities must document management practices that minimize the release of those pollutants into the air.

Many facilities have already implemented these practices, which include:

- using wetting agents or fume suppressants on plating tanks;
- collecting emissions and routing them through air emission control equipment; or
- covering process tanks.



Compliance with the rules and submittal of confirming documentation to the U.S. EPA were due July 1, 2010. For questions, or to get text of the regulations, contact Rick Carleski at Ohio EPA's Office of Compliance Assistance and Pollution Prevention at (800) 329-7518 or rick.carleski@epa.ohio.gov. A copy of the regulation is available online. Search the web under **NESHAP Subpart WWWWWW**.

KEY POINTS FROM THIS ISSUE

- New NESHAP rules for metal platers and polishers
- New reciprocation internal combustion engine standards

Reciprocation Internal Combustion Engines Standards

On March 3, 2010, U.S. EPA promulgated National Emission Standards for Hazardous Air Pollutants (NESHAP) for existing stationary compression ignition reciprocating internal combustion engines (RICE). To help understand the rule's compliance requirements, there is a sample initial notification form, a basic applicability flowchart and a summary table of requirements posted on the RICE website. U.S. EPA will update the site when the next part of the rule comes out. For more information and to access the notification forms and updates, visit the RICE website at www.epa.gov/ttn/atw/rice/ricepg.html.

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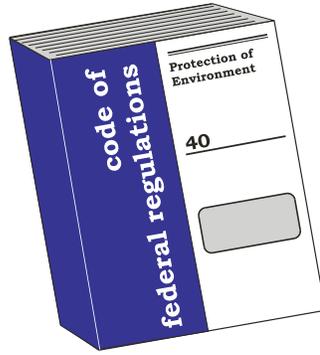
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Gateway for Rulemaking at U.S. EPA

The *Rulemaking Gateway* is a new U.S. EPA website designed to help you track priority rules that are under development. Use the site to learn about U.S. EPA rules from the moment they begin working on them—which is well before they appear in the Federal Register—to when the final rule is published. The Gateway includes special filters that allow specific groups, including small businesses, to decide which rules are of interest. Visit the *Rulemaking Gateway* at www.epa.gov/rulemaking/.



New Design for Environment Online Tool Available

The Center for Resilience recently released a new online tool, the *DFE AdvisorT*. It is available for free on their website at www.resilience.osu.edu/CFR-site/dfc_advisor.htm.

The *DFE AdvisorT* is based on a catalog of Design for Environment guidelines originally published in a 2009 book, *Design for Environment: A Guide to Sustainable Product Development: Eco-Efficient Product Development* by Joseph Fiksel.

The tool asks a few simple questions about your product or process characteristics, life cycle stages of interest, and environmental, health or safety concerns. It then selects relevant guidelines for you to consider, and offers examples of companies that have incorporated these guidelines into their design and engineering innovations. This tool is a non-commercial prototype developed by a team of Ohio State University graduate students.

OCAPP Releases 2009 Tox-Minus Activities Report

Ohio EPA started the Tox-Minus initiative in October 2007 as a proactive and cooperative way to work with Ohio business and industry to reduce toxic chemical releases. As a first step, Director Chris Korleski asked 100 of the top Toxic Release Inventory (TRI) reporters for 2005 to identify, evaluate and implement strategies to reduce waste, air and water-related TRI emissions. The initiative's name reflects a long-term goal, which will help enhance our image as an environmentally proactive, yet economically competitive state.



Participation is voluntary. There are no penalties or enforcement associated with the program. Companies participating in Tox-Minus establish their own goals for reducing TRI chemical releases and other wastes. Ohio EPA's Office of Compliance Assistance and Pollution Prevention coordinates the Tox-Minus initiative.

Participating companies submitted their first updates on related activities during 2008. Annual updates were submitted in 2009 that described 2008 activities, as well as some activities occurring in 2009 and projections for future years. A new report compiling this information is now available at www.epa.state.oh.us/ocapp/tox_minus.aspx.

Ohio Dentists do a Good DEED

The Ohio Dental Association (ODA) announced the Good DEED (Demonstrating Environmental Excellence in Dentistry) program on May 31, 2010. The Good DEED program uses a tiered approach to recognize dental offices that use simple and innovative solutions to minimize the environmental impact of their practices on Ohio's environment.



Gold Tier Dental offices are recognized for installing and operating amalgam separators and meeting environmental regulations. Gold and Green Tier Dental offices meet the minimum gold tier requirements, have an established recycling program, and pursue additional environmentally sustainable activities.



The Office of Compliance Assistance and Pollution Prevention provides technical and compliance assistance support for the Good DEED program. For more information, visit www.epa.ohio.gov/ocapp/mercury_reduction_dental.aspx.

Five Win Green Chemistry Award

The Presidential Green Chemistry Challenge Awards Program is a competitive incentive to create environmentally preferable chemicals and chemical processes. Each year U.S. EPA celebrates innovative, award-winning technologies developed by high-quality nominees. Five of the more than 90 entries were nationally recognized on June 21, 2010, at an awards ceremony in Washington, D.C.



2010 Award Recipients

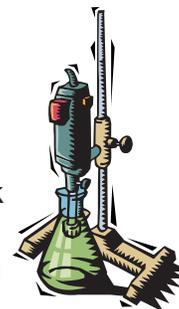
Greener Synthetic Pathways Award
The Dow Chemical Company and BASF — Dow and BASF jointly developed a new route to make propylene oxide with hydrogen peroxide that eliminates most of the waste and greatly reduces water and energy use.

Greener Reaction Conditions Award
Merck & Co., Inc. and Codexis, Inc. — Merck and Codexis have developed a second-generation green synthesis of sitagliptin, the active ingredient in Januvia™, a treatment for type 2 diabetes. This collaboration has led to an enzymatic process that reduces waste, improves yield and safety and eliminates the need for a metal catalyst.

Designing Greener Chemicals Award
Clarke — Clarke developed a way to encapsulate spinosad in a plaster matrix, allowing it to be released slowly in water and provide effective control of mosquito larvae. This pesticide, Natular™, replaces organophosphates and other traditional, toxic pesticides and is approved for use in certified organic farming.

Small Business Award
LS9, Inc. — LS9, Inc. has genetically engineered a variety of microorganisms to act like refineries. Each microbe makes a specific, final chemical product. Among these products is UltraClean™ diesel. This fuel, produced from biomass, eliminates the benzene, sulfur and heavy metals found in petroleum-based diesel.

Academic Award
James C. Liao, Ph.D., Easel Biotechnologies, LLC and University of California, Los Angeles — “Higher” alcohols (those with more than two carbons in the molecule) have higher energy content, but naturally occurring microorganisms do not produce them. Dr. James Liao has genetically engineered microorganisms to make higher alcohols from glucose or directly from carbon dioxide. His work makes renewable higher alcohols available for use as chemical building blocks or as fuel.



For more information about the awards program, including past and current award recipients, visit www.epa.gov/gcc/pubs/pgcc/presgcc.html.

Compliance and Prevention Quarterly cost saving information — If half of all Quarterly readers received the newsletter electronically, we could save nearly \$1,000 worth of printing costs each quarter. Plus, it's good for the environment! To receive an electronic copy, please send your e-mail address* to Dave Foulkes at dave.foulkes@epa.ohio.gov or call (800) 329-7518.

*Please include 'Compliance and Prevention Quarterly' in the subject line.

Need Help?

Ohio EPA's Office of Compliance Assistance and Pollution Prevention is a non-regulatory program and one-stop location for information about environmental requirements, compliance concerns and pollution prevention. Services are free. Contact us at (800) 329-7518 or (614) 644-3469.

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