



Environmental Stewardship

Our Story Continues





EMD + Environment

Sustainability requires making every decision with the future in mind. We take responsibility for all of our activities regardless of whether they relate to employees or products, the environment or the community. We are committed to understanding our impact on global ecosystems and work toward the most efficient and effective use of the planet's precious resources. Long before concepts like corporate responsibility and corporate citizenship became widely known, our company was living these values and incorporated them in our Mission Statement.



“Being a good **environmental steward** is a core part of our business culture. We are ready to be a **leader** in

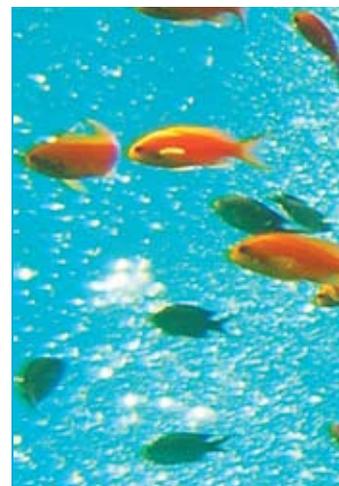


our **industry** and a **role model** for other locations.” Michael Gehrman, EMD facilities manager



Responsible Care® RC-14001

Environmental protection and workplace safety are inseparable in a chemical company. It is so important, that the American Chemistry Council created the Responsible Care initiative which commits participating companies to the continuous improvement of environmental protection, enhanced safety and security, and protection of employees beyond levels required by the U.S. government. In 2004, we achieved RC certification and have maintained it ever since. We attribute this success to our EHS Management Team who conducts regular environmental, health, and workplace safety audits at all our production sites, in conjunction with third party agents, to identify weaknesses and improve resource utilization. Our employees take pride in their success and strive to implement Responsible Care guidelines in their daily work routines.



We are proud of being one of the **first ten**
ACC member companies to earn



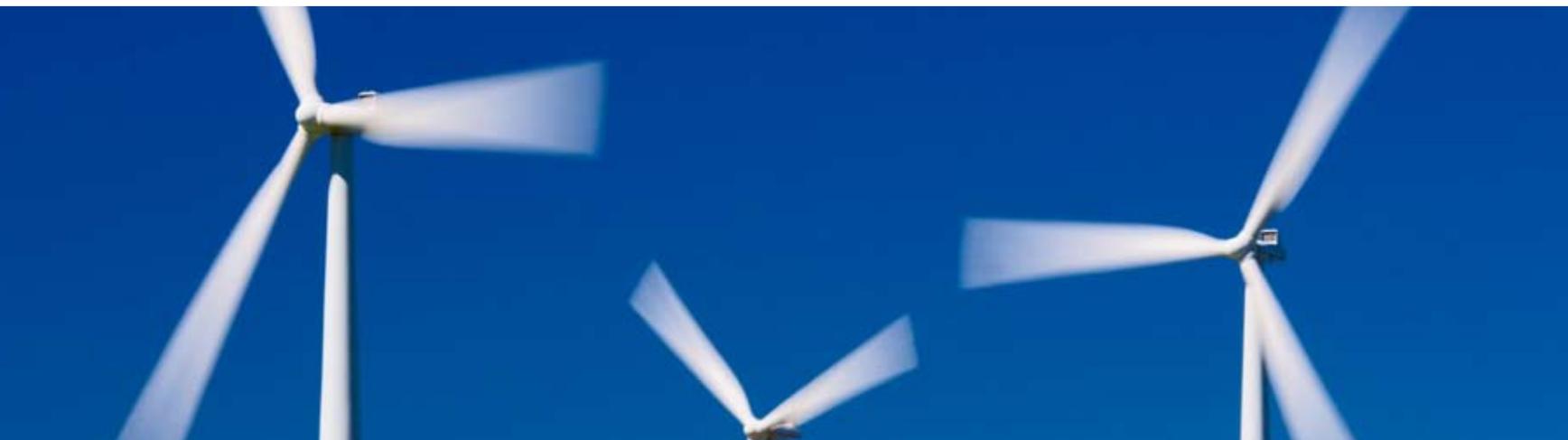
RC-14001 certification, which was achieved
at our **Norwood, OH,** manufacturing site.



Energy Conservation

EMD Chemicals wants to leave a positive impression on the world...not a carbon footprint. Many scientists attribute emission of carbon dioxide (CO₂) into the atmosphere as a major factor in global climate change. We've been committed to steadily lowering our energy consumption and the resulting emissions for nearly a decade. The emission reduction goals we set back in 2002 were achieved ahead of schedule in 2006 resulting in a 40% reduction. Through evaluation of direct and indirect carbon dioxide sources, our new goal is an additional 20% reduction of CO₂ emissions by the year 2020, using 2006 as the baseline.

Continuously **optimizing**
the consumption of **energy** and
resources is one of the main areas



of focus for **environmental**
protection measures.



Safe Shipping

It is our duty to protect and conserve the environment by responsible management of our business. EMD Chemicals ships products to customers all over the world every day; many of which are hazardous goods. Safety is an overriding objective from the design of our packaging to the handling and shipment of our products. To minimize danger to people and the environment, we stay up to date on the latest transport regulations and implement strict operating procedures and policies to ensure we adhere to or exceed worldwide compliance. This means our goods and raw materials arrive at their destination intact. Whether shipping by land, sea or air; safety is our guiding principle.



"We have an obligation to



respect the environment"...

is one of our guiding principles.



Recyclable Packaging

EMD Chemicals products are delivered in packaging material that is 100% recyclable... glass, tin, aluminum, steel or fiberboard. We've invested time and money to engineer sustainable, yet functional packaging. For example, our solvents are shipped in a revolutionary case carton constructed entirely of recycled, unbleached corrugated fiberboard printed with environmentally friendly inks. It features an exclusive honeycomb cardboard insert that replaces environmentally unfriendly EPS (expanded polystyrene) or foam. These inserts break down easily to accommodate recycling, but still provide superior protection to each solvent bottle. This unique design reduces waste that would have otherwise ended up in a landfill, and can help reduce your company's handling costs.



Our company goal is to **increase** our



recycling ratio by **20%** by 2010.



Reusable Packaging

EMD Chemicals offers an alternative packaging option that is safe, economical and helps preserve the environment. Our reusable EMD ReCycler™ stainless steel containers decrease waste, increase efficiency, improve safety and limit environmental exposure. Compared to standard packaging, there is no water wasted for rinsing bottles or polystyrene headed to a landfill. Most importantly, because these containers are closed systems, fewer harmful emissions are released in to the atmosphere.



Reuse is better than recycling
as it confronts the challenges of waste
reduction, while preserving



the energy, resources, time and
money needed to recycle.



Norwood

The Norwood, Ohio production facility contributes to our environmental stewardship program through efficiency and energy reduction. The recent implementation of a lean manufacturing technique repositions equipment, materials and people to streamline the manufacturing process and optimize production. This facility layout change will reduce energy consumption and environmental exposure. The staff at the Norwood plant understand the strain put on the environment by energy consumption from heating and cooling so a heat recovery module that reduces energy consumption by 70% was selected for their new warehouse. Modern temperature controllers that automatically adjust during non-operational hours to reduce the temperature by 15 degrees were also installed. These changes, along with robust recycling programs and rigorous environmental monitoring, are just some of the continuous changes to strengthen sustainability.



With one of our energy efficiency
improvements



we will save 2300 cubic feet of
natural gas each year.



Gibbstown

We are making site improvements and process changes to reduce our environmental footprint in our Gibbstown, NJ facility. Elimination of all products containing mercury reduced exposure for potential environmental impacts in the event of an accident. The implementation of an energy management program resulted in an HVAC system upgrade and installation of automatic lighting controls and fluorescent bulbs. Operationally, the site continues to recycle all cartons, paper and glass bottles from the materials we procure. These changes have increased energy efficiency, kept material out of landfills and reduced strain on the environment.



"You can't **manage** what you can't
measure." Key environmental figures and



consistent monitoring serve as
an important indicator of our **progress.**



San Diego

Our San Diego, CA facility has taken many steps, small and large, to propagate environmental responsibility. 60,000 pounds of hazardous waste have been diverted from disposal in a landfill to being recycled and used as power by a partner company in cement kilns. Instead of disposing obsolete inventory as hazardous waste, we donate over 4000 chemicals to local start-up companies. The latest site improvement is the installation of heat pump economizers that circulate fresh air into the building when the outside temperature is below set point which has reduced energy consumption by 30%.



Stewardship is part of who we are...



not because we must, but because

it's the **right** thing to do.

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