



Sustainability

People, Planet, Performance

As the world's premier provider of specialized polymer materials, services and solutions, PolyOne is committed to meeting the needs of the present without compromising future generations' ability to meet their needs. We are committed to creating value for our customers, employees, communities and shareholders through our dedication to ethical, sustainable and fiscally responsible principles.

To explore our commitment to sustainable practices please click on the links below:

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PolyOne Sustainable Solutions

PolyOne has established the “**PolyOne Sustainable Solutions**” certification to denote those products or services that meet defined standards for sustainability in areas such as renew-ability, recycle-ability, reusability, eco-conscious composition, or resource efficiency. These criteria are:

- **Renewable:** Solutions that are based on, or support the use of, renewable, compostable or bio-degradable resources.
- **Reusable:** Packaging and other logistics-related systems which are easily returned or reused.
- **Recyclable:** Solutions which incorporate post-consumer or post-industrial recycle content or which lend themselves to recycling such as PolyOne's PlanetPak™ packaging system.
- **Eco-conscious composition:** Solutions that respond to ever-changing market needs by offering alternatives to traditional materials such as lead, bisphenol-A (BPA), phthalates, or halogens.

- **Resource efficient:** Solutions that help conserve the earth's resources such as those that enable more efficient production, reduce part weight or material consumption, enable faster cycle times or lower energy consumption or provide better insulating properties.

To learn more about **PolyOne Sustainable Solutions**, [click here](#).



Sustainability

PolyOne has established the **Chairman's Council on Sustainability** sponsored by Stephen D. Newlin, Chairman, President and Chief Executive Officer of PolyOne. This council, which is led by PolyOne's Chief Innovation Officer, Dr. Cecil Chappelow, includes key members of the Company's senior leadership team and is responsible to provide leadership and oversight of PolyOne's corporate sustainability activities.

EH&S Governance

In addition to the Chairman's Council on Sustainability, PolyOne's Board of Directors has a long-standing **Environment, Health and Safety (EH&S) Committee**. The charter of the Committee is to oversee and monitor the establishment and maintenance by management of comprehensive environmental, health, safety, security and product stewardship policies, standards and practices to procure regulatory compliance and safety/environmental operational excellence on a global basis.

Policies and Practices

PolyOne has a number of policies and practices which govern the way in which the Company and its employees manage issues ranging from environmental stewardship to ethics to the security of our people and facilities. These policies include:

- **The PolyOne Sustainability Promise**
- **PolyOne's award-winning No Surprises PledgeSM**
- **Environmental Policy**
- **Product Stewardship Policy**

- **Safety & Health Policy**
 - **Security Policy**
 - **PolyOne Code of Ethics**
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EH&S Management, Reporting & Audit

A key part of our management systems are internal audit and review programs, which periodically examine plant operations and develop recommendations to enhance performance. The scope of this audit/review process includes compliance to PolyOne policies and standards as well as applicable regulations. These standards include:

- Environmental, Health and Safety Capital Appropriation Review
- Chemical Release Reporting
- EH&S Management System
- Empty Container Management
- Secondary Containment of Chemical Compounds
- Recycle/Reuse and Waste Management Procedures
- Groundwater Protection Program
- New Chemical Review
- Pellet & Resin Release Prevention
- Crisis Management Emergency Response Planning
- Standards for Confined Space Entry
- Standards for Trailer/Fork Lift Truck Entry
- Standards for Hot Work
- Standards for Lock Out /Tag Out
- Material Safety Data Sheet and Label Management
- Product Regulatory Compliance Review

PolyOne strives to achieve high environmental standards in both mature and emerging markets through the development of security and environmental management systems, audit/review procedures, certifications, local training programs and best-practice management systems.

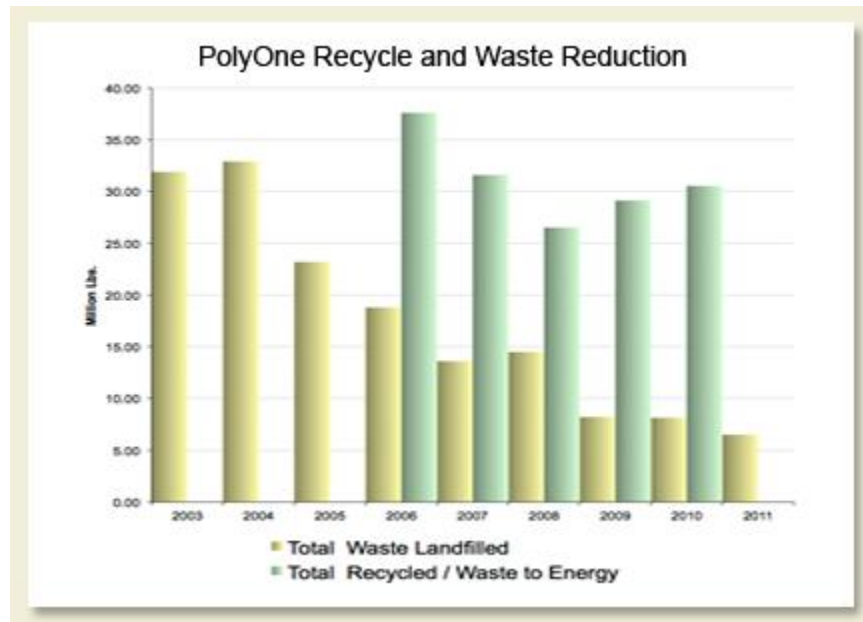
Our ***EH&S Security Management System*** includes forward-planning process which reviews potential environmental and community impact of our manufacturing operations and identifies opportunities to improve the performance of our operations and comply with current and anticipated regulations.

Our ***Environmental Management System*** establishes internal performance and audit/review standards for all our facilities comparable to ISO 14001 standards. Certain of our facilities have also received official certification to the ISO 14001 International Environmental Management System. ISO 14001 certifications follow intensive environmental audits of organizations, conducted by third-party ISO representatives. At present, ten of our facilities hold **ISO 14001 Certification**. In order to continuously track progress made toward achieving environmental, health and safety (EH&S) goals, PolyOne has implemented a reporting program which includes:

- Monthly reporting of production rates, waste generation rates, recycling rates, disposal methods, and compliance.
- Quarterly reporting of progress made toward completion of internal environmental audit/review action items.
- Annual reporting of energy use, water use, environmental capital needs for the coming five years, potential impacts of pending regulations, and narrative status reports on management systems related to air, land and water pollution prevention and control.
- Monthly, quarterly and yearly reporting of safety and health statistics and benchmarking against other best-in-class companies.

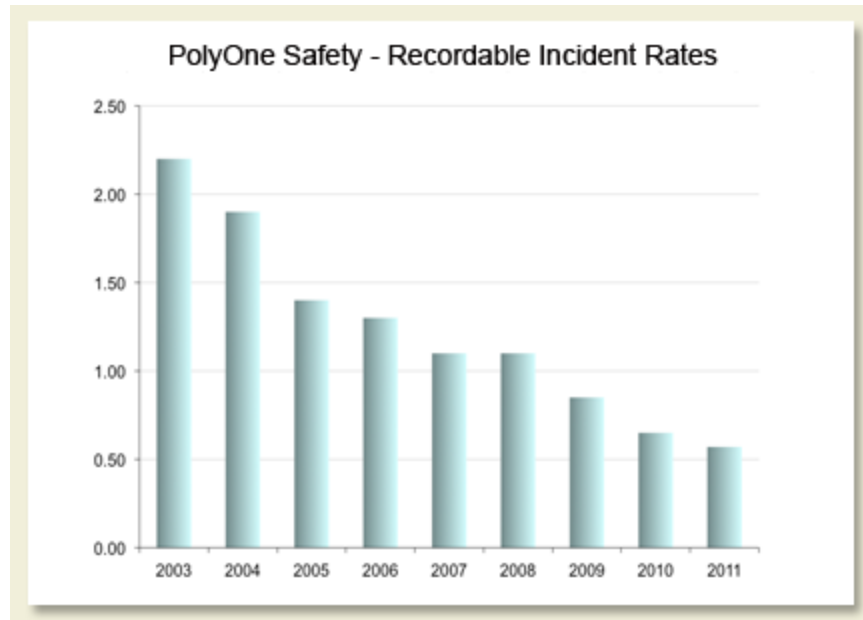
Recycle and Waste Reduction

PolyOne reports annually on our progress toward reducing waste disposed in landfills. Our success in this area can be seen in the graph below. In the period from 2000 – 2011, the Company reduced landfill waste by greater than 80%. In 2007 we added Total Waste to Energy reporting with a goal of increasing both recycled waste and waste converted to energy.



Safety Performance

PolyOne has a long-standing commitment to safety and has a history of world-class safety performance in an industry that has one of the highest historical incidence rates (according to the Bureau of Labor Statistics, U.S. Department of Labor).



Recordable incident rate = number of United States Occupational Safety and Health Administration (OSHA) recordable per 200,000 man-hours worked.

U.S. Industries as compared with PolyOne incidence rates

Source: Bureau of Labor Statistics, U.S. Department of Labor (2011)

2011 PolyOne Incidence Rate	0.57
Nursing	8.30
Rubber and Misc. Plastic Products*	5.10
Transportation/Warehouse	5.20
Construction	4.00
All Manufacturing	4.40
Paper Manufacturing	3.40
Chemical Manufacturing	2.40
Professional Business Services	1.70
Financial Activities	1.30

*PolyOne is included in NAICS Code 326 – Rubber and Misc. Plastics Products

Product Stewardship

PolyOne Product Stewardship enhances the Company's conduct of its business consistent with applicable regulatory requirements and industry standards, and is an important factor in protecting our employees, customers, and the communities in which

we operate. Our team of professionals has a deep working knowledge of major global product regulatory compliance programs and special market requirements and takes an active approach to compliance communication globally across all aspects of our operations.

We are focused on providing our customers with the highest levels of service and are dedicated to meeting our customer's need for regulatory support and global regulatory compliance. We continually monitor global regulations to stay current with the needs of our customers. Our customer support activities include.

- Food and Drug Administration (FDA) /US Department of Agriculture (USDA) compliance support
- National Sanitary Foundation (NSF), Underwriters Laboratory (UL), and other 3rd party product certifications
- Compliance with National Inventories including United States Toxic Substances Control Act (TSCA), Canadian Domestic / Non-Domestic Substances Listings (DSL /NDSL), etc.
- **REACH** – European Legislation on Registration, Evaluation, Authorization and Restriction of Chemical.
- **Restriction on Hazardous Substances (RoHS)** and Waste Electrical and Electronic Equipment (WEEE) electronics compliance
- End of Life-Vehicle (ELV) automotive compliance and data entry into the International Material Database System (IMDS)
- Hazardous Communication including **material safety data sheets (MSDS)** and labeling
- Environmental impact and Environmental Protection Agency (EPA) compliance requirements (permitting and reporting) under federal and state programs such as the TSCA, the Resource Conservation and Recovery Act (RCRA), Superfund Amendment and Reauthorization Act (SARA), etc.
- Compliance with U.S. Consumer Product Safety Improvement A (CPSIA)
- Generating regulatory compliance documentation including:
 - CONEG (Coalition of Northeastern Governors) Model Toxics in Packaging Legislation
 - BSE (Bovine Spongiform Encephalopathy) /TSE (Transmissible Spongiform Encephalopathy)
 - California Proposition 65
 - European Food Contact
 - Individual Customer Restricted Substance lists
 - ASTM F963, EN71, AS1647 Toy Safety Standards
 - Health Branch Canada Submission
 - Drug Master Files
 - Medical Application Files
 - Food and Drug Administration Certification
 - Government of Canada Challenge for Chemical Substances – Batch list review
 - Bisphenol A (BPA) Review

For assistance with product stewardship and regulatory compliance, please **contact your local PolyOne sales office or customer service representative.**

Regulatory and Compliance Agency Support

PolyOne supports the efforts of a number of regulatory agencies and organizations, many of which are non-governmental, that perform important functions including development of global standards, certification of products, risk-management support, or provide third-party conformity assessment services.

The list below highlights a number of the agencies whose actions may affect PolyOne customers and communities.

National Sanitation Foundation (NSF)

NSF, an independent organization, develops national standards, provides learning opportunities through its Center for Public Health Education, and provides third-party conformity assessment services while representing the interests of all stakeholders. For more information, [click here](#)

Underwriters Laboratories, Inc.

Underwriters Laboratories Inc. (UL) is an independent product safety certification organization that has been testing products, developing testing protocols and writing safety standards for over a century. For access to PolyOne's UL listings, [click here](#). Enter *PolyOne* for company name to see the listings.

Canadian Standards Association (CSA) International

CSA International is an independent product safety certification organization that helps achieve compliance with US and Canadian standards. For access to PolyOne's CSA listings [click here](#). Enter *PolyOne* for company name to see the listings.

The Plastics Pipe Institute

The Plastics Pipe Institute (PPI) is a major trade association representing all segments of the plastics piping industry. PPI promotes contemporary use of plastics piping for water and gas distribution, sewer and wastewater, oil and gas production, industrial and mining uses, power and communications, duct and irrigation. To access PolyOne's listings [click here](#). PolyOne PPI listings can be found on page 16, 17, & 47 of the current pdf document.

Food, Drug, Medical

PolyOne's **Good Manufacturing Practices (GMP) internal** guidelines govern the manufacture of intermediate products for our customer's use in making food, drug and medical (FDM) final product applications. As an intermediate supplier, PolyOne's manufacturing facilities are not required to register with nor be directly held to the FDA's specific good manufacturing practice requirements.

PolyOne plays an important role in enhancing customer safety and has implemented internal GMP guidelines to help prevent products from being unintentionally adulterated. Modeled after FDA's GMP requirements, these internal procedures include internal audit/reviews of all PolyOne's manufacturing facilities involved in making products entering into food and/or drug markets including these elements:

- Raw material traceability and quality testing
- Good housekeeping procedures
- Pest control
- Good laboratory practices
- Hygiene policies
- Good documentation procedures
- Finished good quality testing

PolyOne plant personnel involved in making products for FDM use by our customers undergo initial and annual training on the particular processes and procedures involved in the manufacture of intermediate products for FDM markets. PolyOne currently has twenty-three facilities globally certified to the Corporation's GMP program and two facilities certified to "ISD 13485, Medical Device - Quality Management Systems - Requirements for Regulatory Purposes."

Drug Master Files

In support of our customer's Device Master File submission for healthcare materials, PolyOne develops and maintains U.S. FDA Drug Master Files and Medical Application Files. Please contact your PolyOne customer service representative for additional information.

Recognition

Internal Recognition - PolyOne has an internal environmental, health and safety (EH&S) awards program to recognize those PolyOne facilities that demonstrate exceptional performance. For the environmental award, the criteria include achieving a landfill waste reduction target (which requires the plants to embrace a strong recycle program), compliance with all permit conditions and no un-permitted releases to the environment. In 2007 two additional criteria were added to the criteria to receive the PolyOne Environmental Award of Excellence. These criteria are reduction of primary energy source by 2% and reduction of water usage by 5%.

Our safety awards program criteria include no OSHA recordable incidents, no lost-time injuries as well as no serious incidents. In over 30 plants received a PolyOne Safety Award of Excellence.

External Recognition - In addition to our internal recognition program, PolyOne has also received external recognition, such as the Frost & Sullivan 2008 Colorants and Masterbatches Green Excellence of the Year Award. This award underscores PolyOne's strategic focus on innovative sustainable solutions which benefit both customers and the environment.

Resources

PolyOne has created two technical papers which frame some of the basic concepts and principles of sustainability as related to the polymers industry. To download, please click on the titles below. (pdf format - may take a minute to download)

Sustainability Concepts and Implications (668 KB pdf)

- What is Sustainability?
- People, Planet, Performance
- Impact on Business
- PolyOne Support

Bio-Materials Development in the Polymer Industry (440 KB pdf)

- The 7 R's of Sustainability
- Historical Views and Trends
- Bio-Materials Overview
- Market Challenges