Stewardship Vision 2020
The crop protection industry is taking the lead to ensure safe and responsible management of empty, properly rinsed pesticide containers worldwide. Through collaboration with governments and country stakeholders, our industry has a goal of recovering 50% of all crop protection containers by the year 2020.

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Container Management
The plant science industry provides farmers with crop protection products that enable them to improve agricultural productivity while sustainably managing precious natural resources such as land, soil and water.

Product packaging plays an essential role in ensuring that crop protection products are delivered safely to the intended customers, while minimizing the risk of leakage and exposure. The containers in which products are sold are part of the plant science industry’s life-cycle approach to product stewardship. The industry is committed to ensuring that all containers are treated and disposed of safely and appropriately.

Many container management programs are now operating in countries around the world. These have been developed over several years and are often run in partnership between industry and government. The goals of these programs include:
• safe delivery of crop protection products to the final customer
• protecting both the environment and the operator from exposure
• appropriate treatment and safe disposal of used packaging
• reducing waste and maximizing recycling
• ensuring compliance with local packaging requirements and legislation

Container management programs are supported across three main areas:
1. Research and design of containers
2. Training on responsible use of pesticides for distributors, retailers and end-users
3. Support of recycling options

CropLife International is the voice of the global plant science industry. It champions the role of agricultural innovations in crop protection and plant biotechnology in supporting and advancing sustainable agriculture; helping farmers feed a growing population while looking after the planet; and progressing rural communities. The world needs farmers, and farmers need plant science. CropLife International is proud to be at the heart of helping farmers grow.

Container Management
Safe and Effective Management of Empty Crop Protection Product Containers

Current Sectors
Stages in Container Management

Research
Active Ingredient/Formulation

Container Design
Water soluble
Recyclable
Minimum waste/bulk

Transport
Storage/Distribution
Handling

Recover/Recycle
New products
Energy
Methanol
Re-use (large, multi-trip containers)

Rinse

Destroy
Incorporate in approved facilities
Landfill/Bury

Helping Farmers Grow
The ideal approach for effective product design is to pro-actively mitigate potential issues by developing packaging that is safe, efficient and capable of being recycled or returned for re-use. The research and design phase is therefore a crucial component of the container management process. Such innovations include:

- small ready-to-use packs (suitable size for backpack sprayers)
- multi-trip, returnable containers
- one-way, single-trip containers made of recyclable materials

Currently, one-way containers are most commonly used, with increasing use of multi-trip containers wherever practical.

The global CropLife network is actively supporting and promoting container management programs around the world. Regional and national CropLife associations provide guidance and advice on how to establish a viable scheme, including health, safety and environmental standards, which should be adhered to in all schemes. Additional information can be found in the Roadmap for Establishing a Container Management Programme for Collection and Disposal of Empty Pesticide Containers at www.croplife.org. Under the Integrated Pest Management/Responsible Use training programs, more than 300,000 individuals are trained each year.

Global reporting from regional associations indicates there has been a continual increase in the total amount of containers recovered, from 2.9 million kg of plastic containers in 2005 to more than 8 million kg in 2013. At the same time the specific cost of recycling has steadily decreased, making the sustainable introduction or continuation of container management programs more viable.

The most successful programs have been delivered in partnership with other stakeholders, such as local authorities and government. In the majority of cases, industry has taken the initiative. The global CropLife network will continue to support and implement practical solutions that ensure the responsible management of crop protection containers around the world.

For more information, please visit www.croplife.org.