Pesticide Containers: Solving the IBC Handling & Recycling Puzzle

Steve Wiest, U.S. Market Segment Manager
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The Pesticide Stewardship Alliance (TPSA)
TOPICS

1. Approach & Timeline

2. IBC Recycling Considerations

3. Recycling Process & Method
Approach & Process

- 2009 Operations
- 2011 Regulations
- Products & Services
- Stewardship
- Cost $
Committee Photos
2009 Recycling Time-Line

**JAN – JUN**
- Dedicate Resources
- Form Committee & Advisory Personnel
- EPA Rule Review
- IBC Fleet Analysis

**JUL – OCT**
- Committee meeting with Suppliers
- EHS Recycling Method Flowchart
- Recycling Website

**EXECUTION**
- Communicate Process & Method
- Deploy Website & Training for Locations
- Recycle Containers

**NOV forward**
Recycling Considerations

• “Retired” Out-of-Use IBC containers to Recycle

• Pesticide Refilling & Rinsate Operations
  – Check Valve Use = Rinsate Mitigation (Time & $)
  – Begin Integrating Check Valves on IBC’s in Fall 2009
  – Recommend Registrants fit IBC’s with Check Valves

• Cage & Bottle vs. Roto-molded Tanks
  – Retrofit IBC with Check Valve or IBC replacement
  – Cost vs. Longevity

• Procurement Decisions
  – Check Valve Availability
  – IBC Manufacturing Capacity
  – Cost, Product Options & Services = Viable Solution
Recycling Services
IBC Manufacturer / Distributor Programs

Combine Recycling Services with Replenishment Programs

- **IBC North America - Clean Tide Container**
  - All Cage & Bottle IBC’s
  - All Roto-molded IBC’s & Bulk Tanks
  - All Drums, Jugs & Bottles
  - All IBC Reconditioning & Recycling Service

- **CropLand Container Corporation**
  - Cage & Bottle IBC’s
  - All IBC Reconditioning & Recycling Service

- **MAUSER - National Container Group (NCG)**
  - Cage & Bottle IBC’s and Roto-molded IBC’s
  - IBC Reconditioning & Recycling Service

- **SCHÜTZ Ticket Service**
  - Cage & Bottle IBC’s
  - IBC Reconditioning & Recycling Service

- **Plastic Recycling**

- **IBC Reconditioning**

- **New IBC’s Purchases**

- **Freight Logistics**
Comprehensive Plastic Recycling Program
IBC (Cage & Bottle) CONTAINER

Recycling Method

**IBC Condition:**
1. **TRIPLE-RINSED**
2. **EMPTY - NO HEEL**

**EMPTY Definition:** All wastes have been removed that can be removed using the practices commonly employed to remove materials from that type of container, e.g., pouring, pumping, and aspirating, and no more than 0.3 percent by weight of the total capacity of the container remains in the container or inner liner if the container is greater than 119 gallons in size.
IBC Recycling Portal

- Automates CPS Recycling Method
- Collects IBC Information & ‘Last Contained Pesticide’ Information
- Communication to EHS for Action & Creates Record
2010 Action Items

- Implement pesticide container recycling method for State of California compliance (JAN 1, 2010) – other States to follow

- Implement a comprehensive recycling program

- Promote & support IBC recycling activity

- Develop EPA recordkeeping capability with recycling component
Thank you

• The Pesticide Stewardship Alliance (TPSA)
  – CROPLAND CONTAINER CORP
  – FARMCHEM
  – HOOVER MATERIALS HANDLING
  – GREIF
  – IBC NORTH AMERICA / CLEANTIDE CONTAINER, INC
  – MAUSER CORP
  – NEXT DAY CONTAINER
  – PROMENS
  – SCHÜETZ
  – SNYDER INDUSTRIES, INC
  – SOLAR PLASTICS, INC
  – TAYLOR-CAIN CORP