

The Pesticide Stewardship Alliance

Donnie Taylor Agricultural Retailer Association

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WHO IS ARA?

- The Agricultural Retailers Association (ARA) is a nonprofit trade association that serves as the political voice of agricultural retailers and distributors.
- ARA's leadership includes a 44-person board representing retailers, distributors and suppliers of crop protection products, fertilizer, equipment, technology and other services.
- ARA members represent the majority of agribusiness dealers in the United States ~ 6,500 agronomy retail and distribution outlets.



Pesticide Disposal & Plastics Recycling (General Overview)

- Rinsing
- **▶**Rinsate
- **▶** Disposal
- **IBCs**

Rinsing

- Recyclable Containers are Triple Rinsed
- Retailers / Custom Applicators Triple Rinse as They Load
- ► Farmers / Growers Have Learned to Triple Rinse
 - ► Retailers and Recyclers Have Rejected Dirty Containers
- ▶ Bulk and Mini-bulk Has Reduced Need for Rinsing
- Dedicated Stainless Steel Kegs and Tanks
- Use Micromatic Values To Protect Dedicated Containers



One way valves or tamper evident devices are employed on PFC openings other than vents.

- For portable refillable containers holding liquid pesticides, each opening other than a vent must have a one-way valve, a tamperevident device, or both.
- A vent must be designed to minimize the amount of material that could be introduced into the container through it.



Rinsate

- Goal Is to Add Rinsate Back to the Load ASAP
- Retailers Have Dedicated Rinsate Tank Based On Crop
- Rinsate Of Mini Bulk (off season) Stored By Crop
- Rinsate From Cleaning Equipment Most Difficult
- Contains Soil and Pebbles
- ► Even Micro Size Particles Can Clog Modern Nozzles

Rinsate - Direct Inject

► Applicators Using Direct Inject To Reduce Rinsate





Rinsate - Chemical Injection Option

- ► Two tank two pump
- High volume injection system
 - ▶ (5 to 200 oz/acre)



Rinsate

Multiple Spray Booms to Reduce Rinsate



Disposal

- Goal To Minimize Need For Disposal
- Waste Water is Applicated Back to Appropriate Field Based On Crop
- Some Manufactures Still Have Retail Locations For This Purpose

Container Disposal

- ► Goal is to Recycle 100%
- Some Retailers have Installed Chippers
- Other Work With Plastic Container Manufacture To Recycle Plastic
- Work With State Recycle Projects as well as

IBCs

- ▶ DOT qualified vessel which requires initial testing and requalification after 2.5 years of use.
- Chemical Manufactures Require Test Inspection
- ▶ The industry is not consistent with IBC operations.
- Some Retailers Inspect and Pressure Test On Rigorous Schedule
- ▶ Other Retailers and Distributors Have Decided Not To Fill again after 2.5 years and to Take Out of Service.
- ▶ RCRA guidance on recycling of these totes.
- ► Triple rinse these Container if Seals are broken
- Rinsate used as makeup water on next application.
- ▶ If using IBC to repackage retailer should follow manufacturer requirement of washout and labeling

IBSs Disposal

- ► Retailers / Distributors Dispose of their IBCs and PRCs
- ▶ 1) Recycling through a State / Nation program. Requires cutting the tanks up and ensuring they are clean.
- ▶ 2) Sale the Tank to the Farmer Along with the Pesticide .
- ▶ 3) Working through their Manufacturer's Representative to Return the Tanks.
- ▶ 25-30% is disposed of in each category above and the balance are damaged, taken out of service, burnt or used for other products such as used oil, etc.

Questions?

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