

# The Pesticide Stewardship Alliance

**Donnie Taylor** 

Agricultural Retailer Association

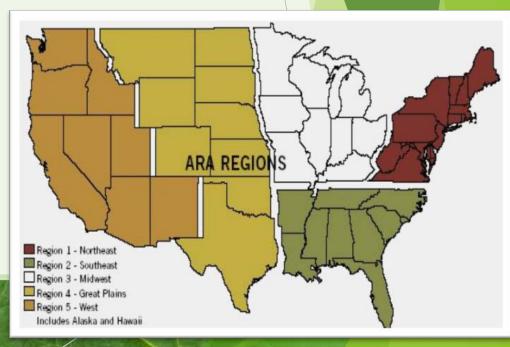


Washington, DC

#### 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 44person 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

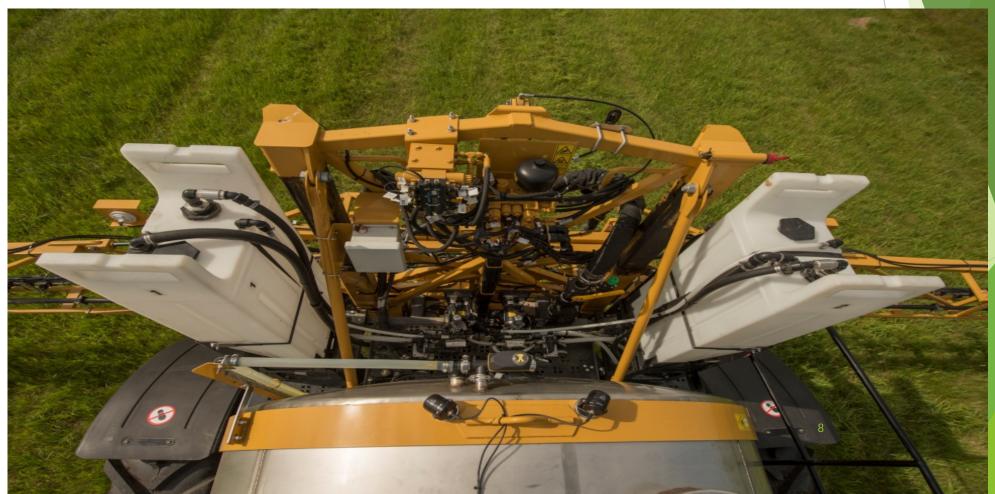
► Applicators Using Direct Inject To Reduce Rinsate





#### 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 Manufacturer To Recycle Plastic
- Work With State Recycle Projects as well as Ag Container Recycling Council (ACRC)

#### **IBCs**

- ▶ DOT qualified vessel which requires initial testing and requalification after 2.5 years of use.
- ► Chemical Manufactures Require Test and 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 retailers 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.

# Pesticide Disposal & Plastics Recycling (General Overview)

- Rinsing As We Go
- Rinsate Reduce When Possible
- ► Disposal Back to the Appropriate Field
- ►IBCs Test and Inspection

#### **Questions?**

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