



Container Management Stewardship Programme

Rinsing of Crop Protection Containers

Steven Byrde, CMS Manager
European Crop Protection Association

Rinsing of crop protection containers

Why should users rinse their containers?

▶ Proper rinsing of empty pesticide containers allows to:

- ✓ Efficiently decontaminate containers by removing more than 99.99% of original formulation;
- ✓ Use all product and so, i.e. save user's money!
- ✓ Reduce risk of exposure for human, livestock and environment;
- ✓ Classify containers as non-hazardous waste (in most countries);
- ✓ Setup more efficient logistic and better recovery options for packaging waste;
- ✓ Keep the cost of collection and recovery low and so, don't increase the price of new products
- ✓ Comply with regulation and instruction on product label

Rinsing of crop protection containers

Use appropriate protective equipment

▶ To rinse containers, users should carry **Personnel Protective Equipment** that are recommended for mixing and loading operations of crop protection products (check product label!):

- ✓ Coverall
- ✓ Gloves
- ✓ Face shield / Safety Glasses



Rinsing of crop protection containers

When should users rinse they containers?

- Users should rinse the containers **during the mix and loading operation** immediately after container emptying and **add all the rinsate to the spray mix**. By doing so, he:
 - ✓ Uses all product;
 - ✓ Prevents production of contaminated wastewater;
 - ✓ Allows for more efficient rinsing;



Proper container rinsing and management

Rinsing methodologies and procedures

- Triple rinsing



- Pressured rinsing



- Integrated rinsing



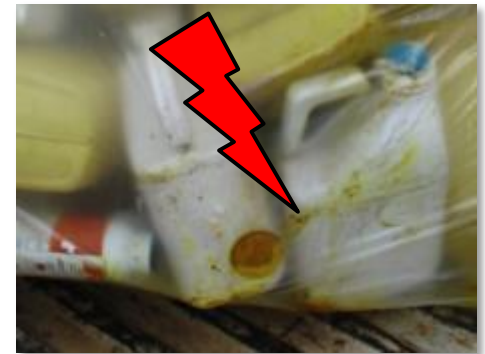
Proper container rinsing and management

Drain and dry rinsed container



Proper container rinsing and management

You can make the difference!



Proper container rinsing and management

Correct preparation of clean and drain packaging wastes

Large plastic collection bags (transparent)



Plastic bags for caps



- 😊 Rigid plastic containers
- 😊 Clean and dry containers
- 😞 No caps on containers!!
- 😞 No flexible pesticide packaging
- 😞 No other wastes

- 😊 Container caps (rinsed)
- 😊 Empty flexible pesticide packaging (sachet, foils) (do not try to rinse them!)
- 😊 Contaminated pesticide carton boxes (empty and folded). *Avoid contaminating secondary packaging; if they are clean, they can be recycled with normal carton*
- 😞 No obsolete pesticides
- 😞 No containers with residues
- 😞 Other wastes!