



## Container Stewardship and Sustainability The New Ag Container Life Cycle

Cropland Containers and Mauser Container

•IBC Concerns

•IBC Life Cycle

Agtainer Advantages

Approved Agtainer Return Sites

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Presented by;

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### **Extensive IBC Research Team**



Jeff and Brian



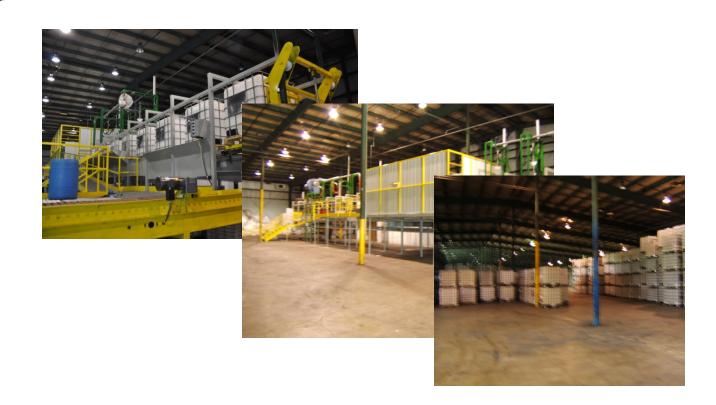
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### Who is Cropland Containers

- Founded by owners of Stainlez Inc. headquartered in Minneapolis, MN
- We are the first supplier to focus the reconditioning, remanufacturing and recycling of all Agricultural containers.
- We service the Midwest with over 100,000 sq/ft in Webster City,IA
- We offer sales, service, and recertification of IBCs and drums
- We are fully integrated scanning and IBC tracking systems with AgTracs









### Who is Mauser Group

#### **COMPANY**

- Based in Brühl, Germany
- Provider of packaging solutions for the chemical, petrochemical, pharmaceutical and food & beverage industries

#### **PRODUCTS**

- Large variety of small and large plastic drums and jerricans
- Universal standard 55 gallon steel drum and other specialty drums
- Intermediate Bulk Containers (IBC) on composite, steel, wooden and plastic pallet
- Blow molding machinery, service and consultancy
- Largest plastic industrial container reconditioner in the US, expanding in Europe
- Fibre drums





## Why did EPA Create the New Regulations



- 1.Ensure the **integrity/strength** of refillable containers
- 2. Minimize the potential for **cross contamination**
- 3. Ensure that containers and repackaging comply with federal pesticide law (FIFRA)
- **4.Encourage the use** of refillable containers

Category	Nonrefillable Containers	Refillable Containers	Repackaging Products	Container Labeling	:
Who must comply?	Registrants	Registrants	Registrants Refillers	Registrants Users	Ai Ai Ai
Major Require- ments	- DOT container design, construction & marking standards - Dispensing capability - Standard closures - Residue removal (99.99% removal)	- DOT container design, construction & marking standards - One-way valves or tamper-evident devices - Vent, gauge & shutoft valve standards for large tanks	- Registrants & refilters comply with specified conditions - Registrants develop & provide certain information - Refilters obtain & follow information; and clean, inspect & label containers before refilling them	Identify container as nonrefiliable or refiliable (all) — Statement to prohibit reuse and offer for recycling, batch code (all nonrefiliables) — Cleaning instructions (some nonrefiliables) — Cleaning instructions (dall refiliables)	- S cc st ar - ( pa di - ( pr - I in ta
Compli- ance Date	Aug 17, 2009	Aug 17, 2011	Aug 17, 2011	Aug 17, 2011	Aı





## **Generic IBC Concerns**

✓ Cross contamination of products.

✓ Non Traceable IBCs can be lost.

✓ Back Flow of other products into the IBC

✓ Usage of IBCs that may not have the proper DOT performance test.

✓ No way to measure or track the IBC end of life.

✓ Generic IBCs allow usage in of markets

✓ Non identifying marking risks second usage outside pesticides.

✓ No properly approved collection sites for IBCs.







### Why Should You Care As a Company?

- Stewardship is an ethic that embodies responsible planning and management of resources.
- ✓ **Sustainability** is the capacity to endure.
- ✓ **Awareness** is the state or ability to perceive, to feel, or to be conscious of events, objects or sensory patterns









### Measurable Results Reduces Risk and Lowers Cost

- Compliance is knowing that the container meets all the state, federal, and UN requirements for the product.
- ✓ **Security** is ensuring your product is safely being shipped and stored in the proper container.
- ✓ **Traceability** is Knowledge! Having the means to analytically trace the container's life cycle from cradle to grave.



## **AGTAINER**

CROP SAFE, FARMER APPROVED TO





- •Developed in partnership by **Cropland Contai** and **Mauser**
- •Designed to meet new EPA PCC rul
- •Color Identificati to ensure usage fo Agriculture usage
- •Smart tracking to have knowledge o last contained, DC test, LKL, and enc life.

ACK FLOW BUILT INTO THE ALVE BODY, THES WILL ENSURE TH

ISED FOR CLOSED SYSTEMS, ALLOWS

TOLL FREE: 888-422-2767 (888-IBC-CROP) FAX: 763-971-7869
2001 MARVEL STREET WEBSTER CITY, IA 50595 WWW.CROPLANDCONTAINERS.COM

MAUSER

## **RETAINER**

**CROP SAFE: FARMER APPROVED** 



Check -



Check - In and inspection

#### CROPLAND CHECK IN AND RECERTIFICATION

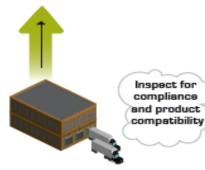
Cropland, scans in the Agtainer to show arrival, then the Agtainer is REMANUFACTURED or RECYCLED (end of life). During the remanufacturing process all Agtainers are re certified with STAINLEZ parts and MAUSER bottles. The Smart IBC is then storaged or sent back to the Refiller facilities to be put back into production.



Check out and assign to Cropland and BOL

#### AGTAINER TRANSFER

Agtainers then go on to be refilled and sent back to the farmer, or are sent back to Cropland to be recertified before put back into production.



#### AGTAINER REFILLER FACILITY

Agtainers arrive at refiller facility. Smart IBC's are evaluated for condition and what previous product was stored in the Agtainer.



#### AGTAINER MANUFACTURING

Register

into

Database

Agtainers are constructed and tracking labels are applied to each individual Smart IBC for DOT and EPA compliance at our Cropland and Mauser Facilities

**AGTAINE**R

CROP SAFE-FARMER APPROVED

cropland

MAUSER

gtrees utilizes the cloud to trees the Agteiner throughout it's life cycle."



#### AGTAINER WAREHOUSING

Agtainers are then stacked and stored in ou warehouses around the country until Small are shipped to refiller facilities or manufa-



#### AGTAINER MANUFACTU OR REFILLER FACILITY

Agtainer arrives at facilities and a filled with assigned agriculture produ



#### Green: Lease

\*Software competible with Macintosh or PC Operating systems



#### AGTAINER TRANSFERS BACK TO REFILLER

If agtainer passes inspection and

compliance it is able to be refilled and is returned to circulation.

> User returns the smart IBC's to the refiller facility.



:Secure TRACS

#### FARMER

Receiver of the product obtains their smart IBC and uses product on agricultural needs.



#### TRANSFER TO CUSTON

Agtainers are loaded onto a truck shipped. Smart IBC's are scanner to show E.T.A. and shipped to cust









**AgTainer Manufacturing** 

- ✓ Made at AL, OH, TX in the US by Mauser
- ✓ Design Tested in Mauser Packaging Lab
- ✓ Performance Tested to DOT and UN standards
- ✓ Individually recorded and tracked into the AgTracs System











# AgTainer Warehousing and Distribution



- ✓ Shipped directly from Mauser or Cropland Containers stocking.
- ✓ Stored in warehouses around the country to reduce lead times.
- ✓ Individually recorded and scanned out and assigned to customer.
- ✓ AgTracs Container Tracking System sends report to customer.



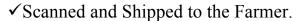


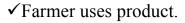


# **Chemical Distribution Channel**



- ✓ AgTainer arrives at the manufacture or Refiller location.
- ✓ AgTainer is filled with product scanned and recorded with product and weight.









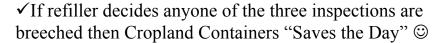


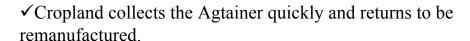


## **AgTainer Collection for Reuse or Remanufacturing**



- ✓ Farmer returns the AgTainer to the refiller.
- ✓ Refiller scans in AgTainer and inspects condition, tamper quality, and certification dates.











# **AgTainer Remanufacting** or **Recyling**



- ✓ Agtainer is return and scanned back into the AgTracs system.
- ✓ The AgTainer gets a new bottle and a new certification date



- ✓ The old bottle is shredded and is turned in drainage tile.
- ✓ The customer receives a report notifying them of the AgTainer End of Life and receives credit through our **Buy Back Program.**



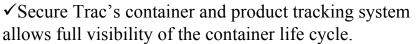


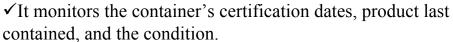
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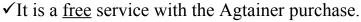




### **AgTainer Traceability**



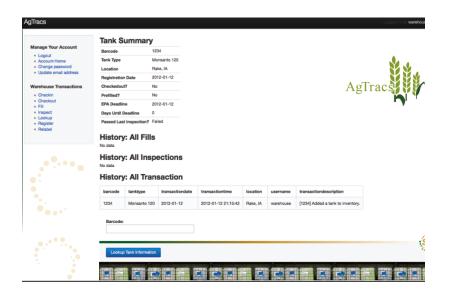




✓ Allows you to measure your containers' metrics daily and yearly so you can improve on knowing where your container are.









CROP SAFE; FARMER APPROVED



# Four Companies with One Vision

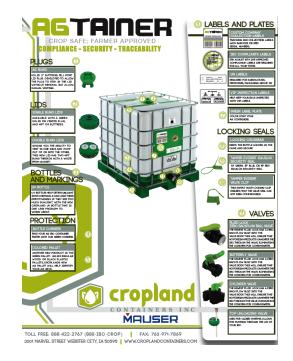


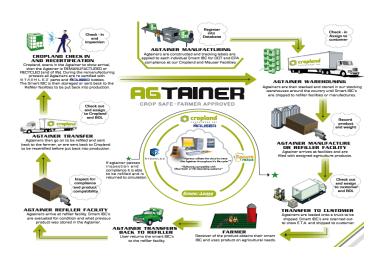










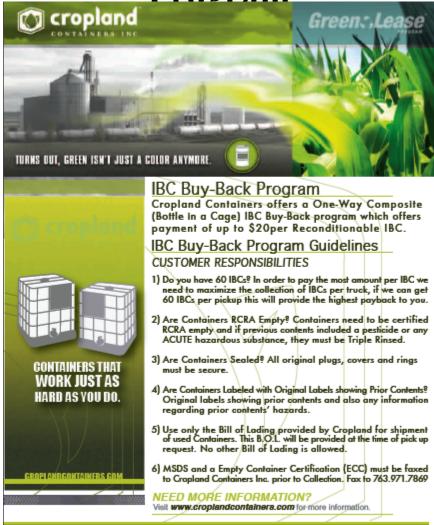






**Container Buy Back** 

Program



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# Two Minds with One Thought





