

The background of the slide features a blue globe with white grid lines. Several red dots are visible on the globe, primarily in the upper right quadrant. The word "SCHÜTZ" is written in a bold, blue, sans-serif font, positioned to the right of the globe's center.

**SCHÜTZ**

## **TPSA Review of Composite IBCs Use & Recollection**

**Ken Rittenhouse**  
**Schuetz Container Systems**  
**Jan 12 2021**

# Why an IBC? Efficient use of warehouse, trailer /container

- 275 gal is better than 220 gal
- Safe stacking, visible fill level
- Less handling, less labor, less cost
- Less packaging materials
- A defined return & recycle process



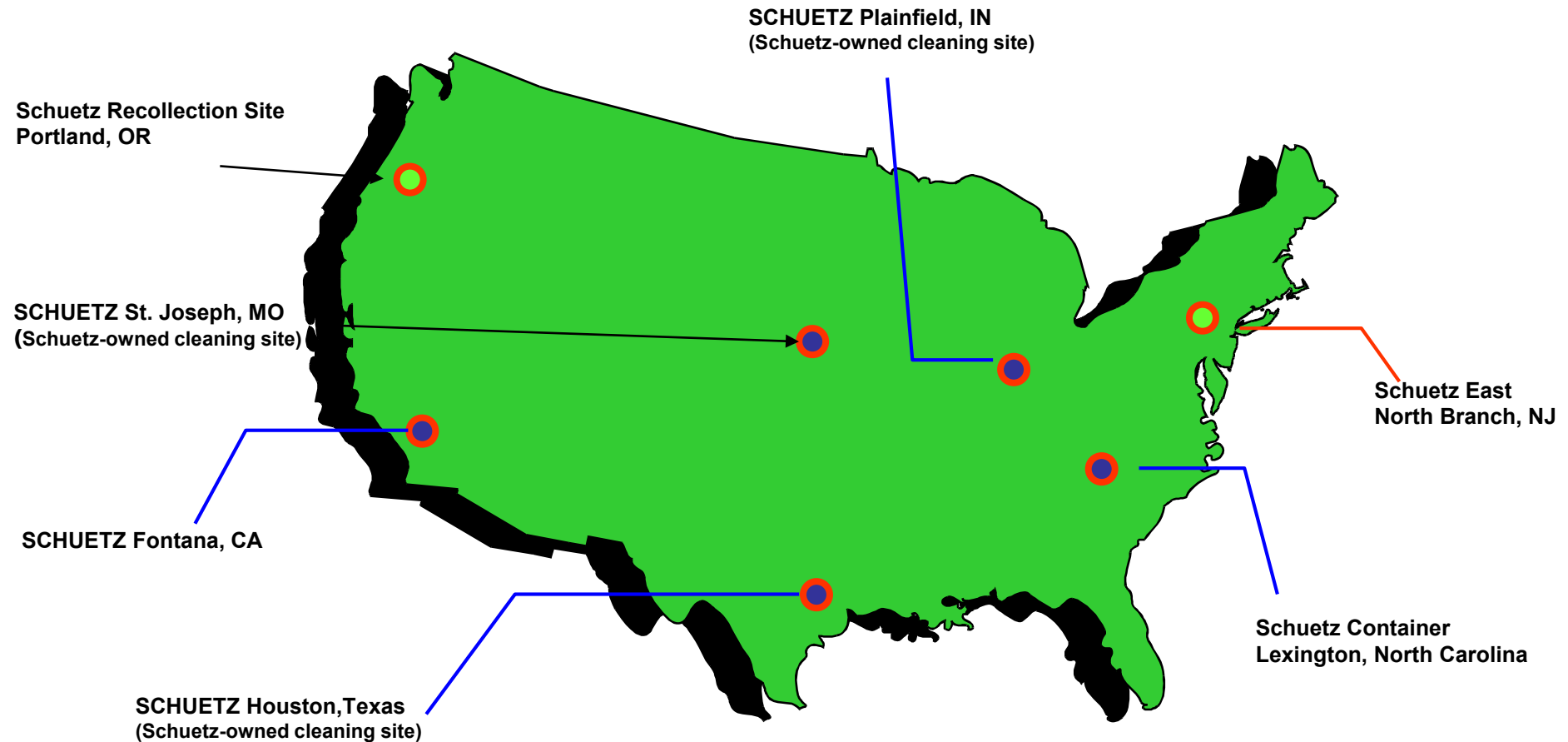
# Why Recollect cIBCs?

- Avoid environmental issues:
- Avoid safety issues:
- Avoid cost:



**These are BAD IDEAS!!!**

# Schuetz 2021 Recycling Locations in the US



Additional Schuetz locations in Mexico & Canada

# Schuetz - cIBC's recollection program

- No cost to anyone – if done correctly - in fact **it's free!**
- **Easy...one FAX to Schuetz to arrange pickup**
- Responsible – 100% compliant with local and US regulations.
- Global – North America, Europe, Asia, etc.
- We call it the Schuetz “Ticket Service”

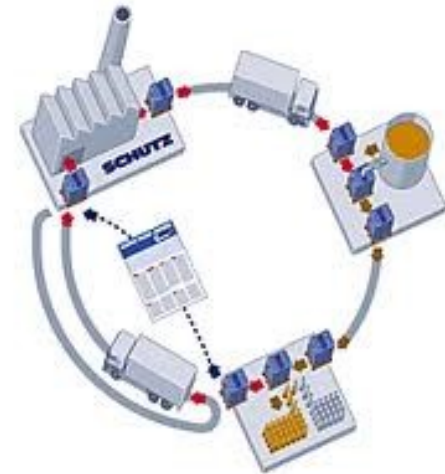


**FAST**  
**FLEXIBLE**  
**WORLDWIDE**  
**SUSTAINABLE**



# Schuetz cIBCs Recollection - How it works

- A few guidelines:
  - Pick-up is free for **minimum of 8** cIBCs,
  - ALL tubular cIBCs are accepted
  - cIBCs should be **RCRA (DOT reg.)** empty (<1 gal)
  - IBCs should have **all the original labels**
  - Drop trailers can be arranged for **weekly** returns
- Complete the Schuetz – IBC Return Form
  - Be certain original labels are on the cIBCs
  - UN # is **legal requirement for DOT HAZMAT**
  - Email to: [ticket.USA@schuetz.net](mailto:ticket.USA@schuetz.net)
  - FAX form to Schuetz 1-908-595-9625
- Schuetz will assign carrier for pick-up & send you a BOL via FAX.
  - cIBCs will be picked up within 7 days of Fax receipt
  - UN placards are needed for DOT HAZMAT materials
  - Call Schuetz with questions: 1-888-724-8389 option 4





# The Return Form:

## SCHÜTZ Ticket Service Empty IBC Return Form



For Assistance, please call **1-888-SCHUETZ (724-8389)**

Fax form to 1-908-595-9625 or Email to: [Ticket.USA@Schuetz.net](mailto:Ticket.USA@Schuetz.net)

**MINIMUM OF EIGHT (8) IBCs REQUIRED FOR FREE PICKUP**

Company Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State/Prov: \_\_\_\_\_ Zip: \_\_\_\_\_  
Contact Name: \_\_\_\_\_ Phone + Ext: \_\_\_\_\_  
Fax: \_\_\_\_\_ Email: \_\_\_\_\_  
Shipping Hours: \_\_\_\_\_ Dock / Bldg: \_\_\_\_\_

Special Instructions for Inbound drivers: \_\_\_\_\_

THIS IS NOT A BILL OF LADING

How Many IBCs?	Hazardous Y/N? *If Yes, please include UN#	Product Trade Name	Product Manufacturer
<input type="checkbox"/> NO <input type="checkbox"/> YES: UN			
<input type="checkbox"/> NO <input type="checkbox"/> YES: UN			
<input type="checkbox"/> NO <input type="checkbox"/> YES: UN			
<input type="checkbox"/> NO <input type="checkbox"/> YES: UN			
<input type="checkbox"/> NO <input type="checkbox"/> YES: UN			
<input type="checkbox"/> NO <input type="checkbox"/> YES: UN			
<input type="checkbox"/> NO <input type="checkbox"/> YES: UN			
<input type="checkbox"/> NO <input type="checkbox"/> YES: UN			
<b>Total</b>			

\_\_\_\_\_ If YES for any, UN Placards must be provided to the carrier by the shipper

THIS IS NOT A BILL OF LADING

### TERMS & CONDITIONS:

1. All IBCs (Totes) must have cages constructed of TUBULAR STEEL. IBCs with WIRE CAGES WILL NOT BE ACCEPTED.
2. All IBCs offered for transportation must have valves and filling caps operational, in place, and closed as per 49 CFR §173.29.
3. When loading, all IBCs should be double-stacked, valve-to-valve along the centerline of the trailer to optimize use of space.
4. All original shipping labels must be in place. Triple Rinsed Empty packagings must be labeled as such as per 49 CFR §173.29.
5. All IBCs must be EMPTY - IBCs should be properly emptied such that if the valve is opened, no product comes out.  
\* IBCs offered for pickup must contain LESS THAN 1 GALLON of product residue as per 40 CFR §261.7.
6. All IBCs must have NO HEAVY DAMAGE to the inner bottle, metal cage, or pallet, with NO SEVERE OXIDATION OR RESIDUE on the inside or outside of the IBC. Metal cages and pallets must be re-usable.
7. As the shipper, you must provide UN Placards to carrier when shipping IBCs which contained D.O.T. HazMat as per 49 CFR §172.506.
8. IBCs containing hazardous product residue in excess of EPA regulations will be returned immediately to the shipper at their expense.
9. Any excess cost incurred in the form of accessorial charges from the carrier shall be the responsibility of the SHIPPER/Origin location. This includes but is not limited to detention, truck ordered/not used, spill clean-up, driver assist and special equipment requests.

Please reference the Schütz Ticket Service Program Overview for the complete Terms and Conditions including all fees associated with non-compliance such as disposal charges for unusable/damaged IBCs and/or excessive residue.

SCHÜTZ has 5 business days (starting the day after we enter this order) to complete the pickup. Please note that special handling and/or equipment requests may be accompanied by a delay in pickup beyond the normal 5 day period described in the program.

For Assistance, please call **1-888-SCHUETZ (724-8389)**

- ▶ My Company accepts the SCHÜTZ Ticket Service Terms and Conditions as defined above.
- ▶ All parties responsible for preparing and loading the above IBCs have been informed of the Shipping Requirements.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
I hereby agree to the terms above authorizing pick up and any charges to be invoiced as stated above  
Telephone Number of preparer: \_\_\_\_\_ (If different than listed Contact)

EMAIL COMPLETED FORM TO: [Ticket.USA@Schuetz.net](mailto:Ticket.USA@Schuetz.net)

OR FAX TO: 1-908-595-9625 OR 1-908-595-9618

♦ SIGNATURE AND DATE REQUIRED FOR PROCESSING ♦

Rev. 2/2016

**This is a legal requirement**

# Schuetz cIBCs Recollection – Conditions

## 40 CFR 261.7 - Residues of hazardous waste in empty containers

- cIBCs:
  - RCRA empty = containers >119 gallons in size (bulk containers): **No more than 0.3% by weight of the total capacity remains in the container**
  - Returns of cIBCs with more than 1gal of HAZMAT are not accepted
  - All Valves & fill caps must be operational by law & closed
  - Original shipping labels on the cIBCs must be in place
    - Or triple rinsed per the CFR
  - Heavily damaged bottles, cages and pallets will not be accepted.
  - Heavily oxidized units are not accepted.
  - We **prefer returns in loads of 60 IBCs**, minimizes freight costs
- Freight:
  - Schuetz will assign a carrier (2days), and send in a trailer for pick up
  - Please allow 10 business days for pick up



# Mutagenic Cat.1 & Carcinogenic Cat.1 not collected

## CARCINOGENS / MUTAGENS

SCHÜTZ reserves the right to refuse to take back used IBCs that constitute a potential health hazard. Products excluded: e.g. filling goods causing cancer and/or belonging to the class R45/49 (for US purposes: Mutagenic Cat. 1, Carcinogenic Cat. 1) will not be collected. Western Canada must triple rinse for all Marine Pollutants, Bio-Hazard waste, herbicides or pesticides.

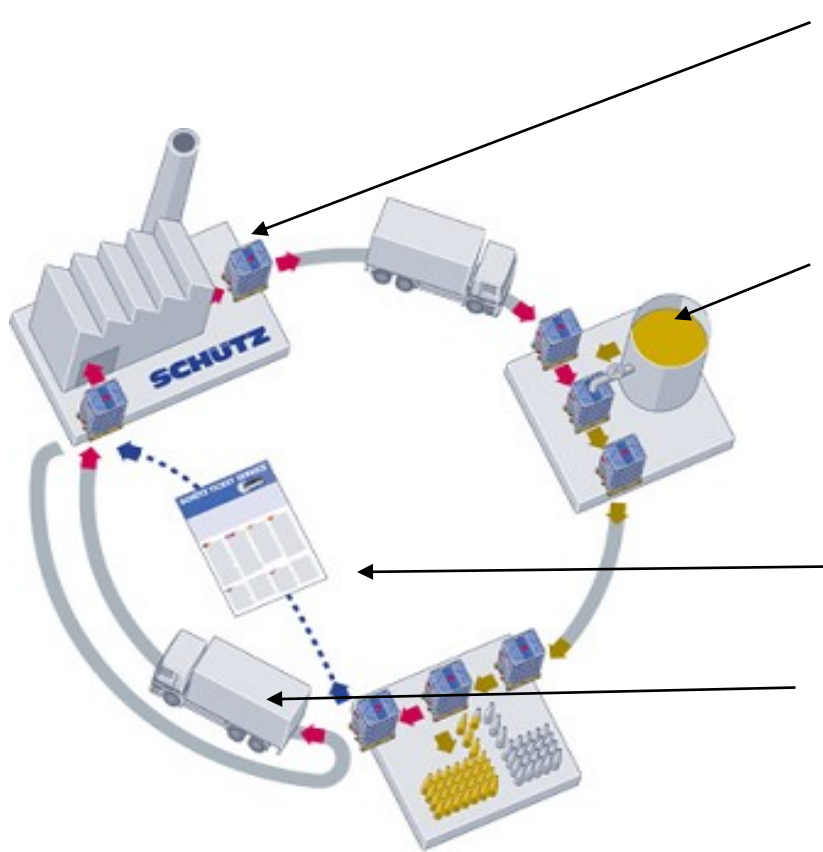
# FIFRA Registered Chemicals

- The **Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)** is a United States federal law that set up the basic U.S. system of [pesticide](#) regulation to protect applicators, consumers, and the environment.
- It is administered and regulated by the [United States Environmental Protection Agency](#) (EPA) and the appropriate environmental agencies of the respective states.
- FIFRA has undergone several important amendments since its inception. A significant revision in 1972 by the Federal Environmental Pesticide Control Act (FEPCA) and several others have expanded EPA's present authority to oversee the sales and use of pesticides with emphasis on the preservation of human health and protection of the environment by "(1) strengthening the registration process by shifting the burden of proof to the chemical manufacturer, (2) enforcing compliance against banned and unregistered products, and (3) promulgating the regulatory framework missing from the original law".[\[2\]](#)

# **Safely Cleaning & Preparing Large Containers for Recycling**

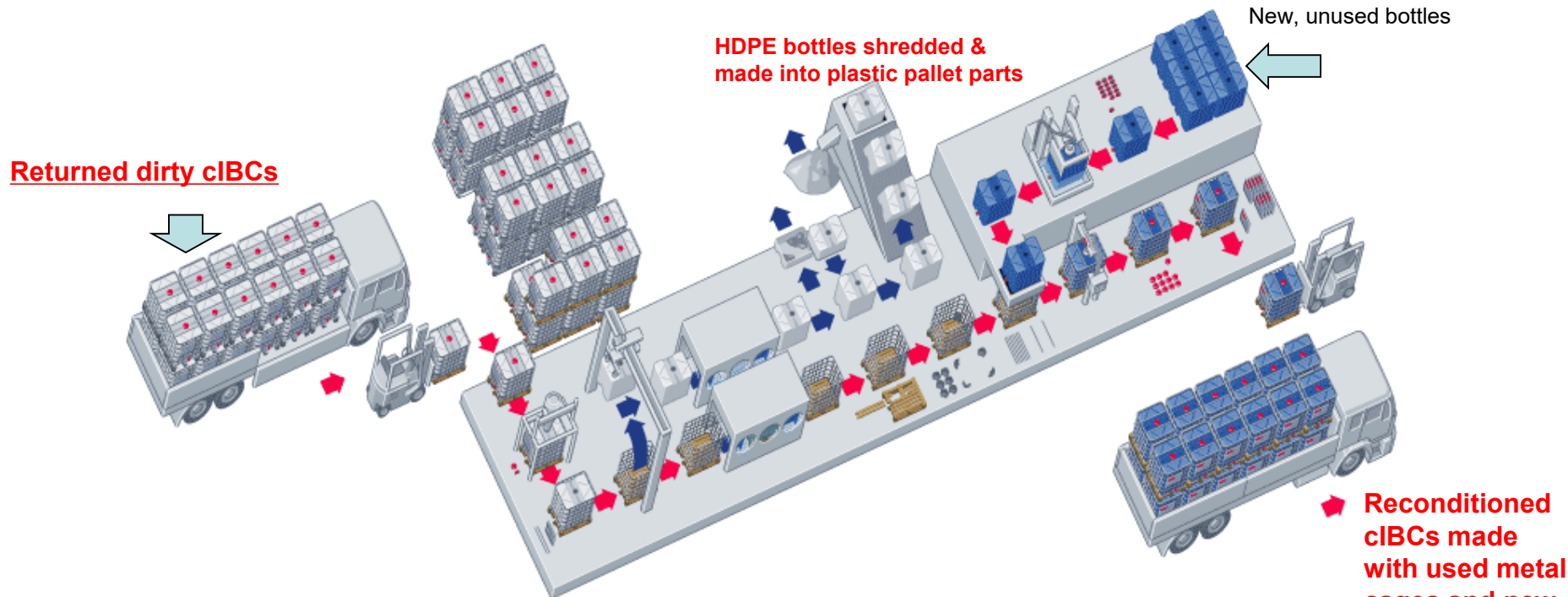
- **Complete a EH&S Review** for those cleaning the tank
  - Training
  - PPE
  - Rinsate control
- **Clean and Prepare the container**
- **Thoroughly clean the interior and exterior of container.**
  - The label should describe the cleaning instructions
- Manage the rinsate properly
- Drain IBC properly
- Remove HAZMAT labels, identify as TRIPLE RINSED
  - DOT Haz Class 5.1, 5.2, and 6.1 ..... must be 3x rinsing
  - Oxidizers
  - Peroxides
  - Toxic substances

# Schuetz TICKET SERVICE = Safe Reconditioning



- Production of cIBCs at Schuetz
- Delivery of New or Reconditioned cIBCs to filler
- Primary customer filling the cIBCs
- User empties the cIBCs
- **Emptiers sends** TICKET FAX to Schuetz
- **Empty cIBCs** are picked up by Schuetz carrier

# Schuetz Reconditioning & Recycling



1. Siphon off remaining contents
2. Detaching, removal of labelling
3. Separation of extremely soiled container parts
4. Hazardous waste
5. Shredding into PE granules, recycling
6. High-pressure cleaning of the components in specialized washing plants
7. Repair of defective pallets and outer steel containers

8. Insertion of corner protectors
9. Installation of the new PE internal container
10. Inspection, pressure check
11. Installation of new screw caps
12. Labeling of the complete ECOBULK with a new identification number
13. Delivery of the reconditioned ECOBULK

# What does Schuetz do with returned cIBCs?

- Schuetz attempts to use the returns to make reconditioned cIBCs...
  - Typically ~80% of metal cage are reused
  - Typically 95% of the HDPE innertanks are shredded and the HDPE recycled
- The badly damaged cIBCs (~20%) are totally scrapped
  - 100% scrap metal is sent to metal recyclers
  - 100% of HDPE is injection molded into pallets
- Schuetz goal:  
No part of the returned cIBCs goes to landfill



# **Badly damaged cIBCs: scrapped & the raws 100% recycled!**



**Damaged Metal parts are shredded and sent to recycling**



**HDPE Bottles are shredded & molded into plastic pallets...**

# Partnering with Schuetz Container Systems:

## Schuetz wants:

- **Consolidation** of tubular empty cIBCs into TRUCKLOADs (60pcs)
- **HAZMATs** must be identified/labelled and/or 3X rinsed
- **DOT, EPA regulations** must be followed
- **SDS** should assist the emptiers with rinsing & recycling details

## Interested parties should consider:

- Consider developing consolidation locations
  - Partner with AGCHEM DCs, NGO or waste consolidators
- DOT, EPA regulations must be followed

**Schuetz wants to recycle cIBCs**  
**Schuetz can tailor programs to your needs**



# THANK YOU FOR YOUR TIME.

FOR ADDITIONAL INFORMATION CONTACT:

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