

NCDA & CS
Structural Pest Control & Pesticides Division

**Integration of
Pesticide Disposal Assistance
and Pesticide Container Recycling**

Derrick Bell - Program Manager

2010 TPSA Conference – Savannah, GA
February 22, 2010

One Goal ...

To Provide Citizens of the State an
Environmentally Proper Way
to Handle Unwanted or Unusable Plastic
Pesticide Containers (Especially Mini-bulks,
Tanks, and Plastic Drums) That May Contain
Residual Pesticides
by Properly Disposing of the Unwanted
Pesticides and Recycling the Plastic Material

One Goal ... Two Programs

- PESTICIDE DISPOSAL ASSISTANCE
- PESTICIDE CONTAINER RECYCLING

Project Overview

- **Project: Mini-Bulk Plastic Recycling**
 - Provide Proper Recycling/Disposal Solution
 - Organize Processing Sites To Segregate Residual Pesticide from Recyclable Plastic
 - Properly Dispose of Generated Pesticides
 - Recycle Generated Plastics







Project: Mini-Bulk Recycling

- **Provide Proper Recycling/Disposal Solution**
 - **Over 700 Licensed Pesticide Dealers in NC**
 - **Old, Brittle and Damaged Mini-Bulk Tanks**
 - **Non-Returnable**
 - **Residual Pesticides Remain in Containers**









BEFORE USE

Bicep

HERBICIDE

For weed control in corn and grain sorghum

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

Product No. **58630** 60 GALLONS

PRECAUTIONS: Do not apply to crops or plants susceptible to injury. Do not apply to crops or plants susceptible to injury. Do not apply to crops or plants susceptible to injury.

Directions for Use: Apply 1.5 to 2.0 gallons per acre in corn and grain sorghum. Apply 1.5 to 2.0 gallons per acre in corn and grain sorghum. Apply 1.5 to 2.0 gallons per acre in corn and grain sorghum.

First Aid: If swallowed, induce vomiting. If inhaled, move to fresh air. If on skin, wash with soap and water. If in eyes, flush with water.

Storage: Store in original container. Do not mix with other chemicals. Do not use if container is damaged.

Disposal: Do not dump in water. Do not burn. Do not incinerate. Do not use as fuel.

Other Information: Bicep is a registered trademark of Dow Chemical Company. © 1980 Dow Chemical Company.

Barcode: 0000000000000

Project: Mini-Bulk Recycling

- Organize and Publicize
 - **Publication Packages**
 - All 100 County Cooperative Extension Agent Offices
 - Each of the over 700 Licensed Dealers
 - **Posters**
 - **Website**
 - **Brochures Including Survey Form**

MINI-BULK & PLASTIC DRUM RECYCLING



The NCDACS is sponsoring
the recycling of old,
unwanted pesticide mini-bulks.

This is a **NO COST** project to assist
North Carolina farmers and pesticide dealers.

Sponsors: Pesticide Disposal Assistance Program, NCDACS Pesticide Section,
Cooperative Extension Service, US Ag Recycling, INC., NC Crop Protection Association
Funded through a grant from the Pesticide Environmental Trust Fund



**MINE-BULK AND PLASTIC DRUM RECYCLING PROJECT
FIELD SURVEY FORM**
Complete FULLY and Return by DEADLINE.

COUNTY _____

OWNER / FARMER _____

ADDRESS _____

CITY _____

STATE _____

PHONE _____

ZIP _____

Other Name and Phone Number _____

DEADLINE _____

COUNTY _____
CITY/TOWN/VILLAGE _____
ADDRESS _____
PHONE _____
CITY _____
STATE _____
ZIP _____
EQUIP. _____
Owner Name and Phone Number _____

Case Name and Phone Number

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
5708 S. DICKINSON AVE.
CHICAGO, ILL. 60637

Call 919-733-7366
for more information
Deadline: December 15, 2003

[illegible]

HOW TO PARTICIPATE

Participate: To participate, respondents are asked to send a photo to Photo@Photo.com, a photo of their face or a photo of their pet. The photo must be accompanied by a name and age of the participant.

Philosophical Themes

[illegible]

BRACE/PAE Support the knee jointing and the femoral

Information about the use of your personal data will be provided by the controller, to whom you can also apply for access, correction, deletion or restriction of your data. You can also lodge a complaint with the competent supervisory authority.

**MINI-BULK AND PLASTIC DRUM RECYCLING PROJECT
FIELD SURVEY FORM**
Complete FULLY and Return by DEADLINE

NAME _____
CITY _____
STATE _____ ZIP _____
NAME and Phone Number _____

DATE _____
 BY _____
 CITY _____
 STATE _____
 ZIP _____

See also: *Phylogeny*

ONE TO YOUR SITE AND SPECIFIC LOCATION OF MINERAL PLASTIC DRUMS LISTED

EACH CONTAINER ON SEPARATE LINES AND COMPLETE TABLE FULLY

[illegible]

My signature online certifies that I am the holder of the listed trademark(s) and/or give my permission to the U.S. Patent and Trademark Office to register the trademark(s) listed above.

Signature _____

MSA & ACTRACIS Inc. Precision 1000 Mail Service Center Raleigh, NC 27609 1070
 OR FAX TO 919/471-7500

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For more information, Call 800-775-7283 or visit www.merck.com.









It is illegal to use this tank to
refill other containers for resale
or for any other purpose inconsistent
with the label.



Manufacturing by Solar Plastics
MACA 75

Material of construction LLDPE

Design pressure 6 PSI
Test pressure 9 PSI

Rated gross weight 2200 lbs.

Capacity 200 gallons

Serial number S94-

Tare weight 173 lbs.

Production date 1994

PROPERTY OF MONSANTO COMPANY

S200G





Project: Mini-Bulk Recycling

- Processing Mini-Bulks
 - Staging/Processing Area Set-Up
 - Poly Sheeting, pallets, power supply, etc.
 - Signed Release of Liability Forms
 - NCDA&CS supply of power tools
 - Safety equipment incl Tyveks, safety glasses, gloves, etc.
 - Residues Collected by On-site Haz Waste Contractor
 - Supply of Drums and Cubic Yard Boxes for Waste









North Carolina
Department of Agriculture
and Consumer Services
Food and Drug Protection Division

Bob Cook
Commissioner

N. David Smith
Deputy Commissioner

Pat Cummings
Assistant Commissioner

L. Bruce Williams
Director

PESTICIDE DISPOSAL ASSISTANCE PROGRAM
AND THE
PESTICIDE CONTAINER RECYCLING PROGRAM

MINI-BULK AND PLASTIC DRUM RECYCLING PROJECT

RELEASE OF LIABILITY FOR USE OF TOOLS

I, the undersigned, in consideration of using tools or equipment belonging to the North Carolina Department of Agriculture and Consumer Services at no cost, hereby agree as follows:

1. I am familiar with the tools or equipment and I understand the risks associated with the use of such tools or equipment, and I hereby assume all such risks.
2. I hereby release the Department and its employees from any and all liability whatsoever for any personal injury or property damage arising out of my use of such tools or equipment.

Date: _____

Signature: _____

Print Name: _____





















Project: Mini-Bulk Recycling

- Recycle Generated Plastics
 - Staged On-site
 - Ground On-site or Combine Staging Sites for Convenience
 - Processed Plastic Recycled by ACRC Certified Recycler















INTERNATIONAL

SA - SERVICE

YR 9 -03

4400
DT530

USAg Recycling, Inc.



1-800-654-3145

US DOT 674675
TX DOT 5505193C

FIRE EXTINGUISHER





Project: Mini-Bulk Recycling

- Promotional
 - Newspapers
 - TV Coverage On-Site
 - Press Releases





Project: Mini-Bulk Recycling

- Production and Totals: (Grant)
 - 20 Processing Sites
 - 400 - 6,200 Pounds of Plastic per Site
 - Total of 19,850 Pounds of Plastic to date
 - Disposal and Mobilization Cost : \$22,195
 - Plastic Recycling Cost: None

MINI-BULK 2008-2009

LOCATION	DATE	ESTIMATED MINI-BULK CONTAINERS	ESTIMATED PLASTIC GROUND (LBS)	ESTIMATED MATERIAL FOR DISPOSAL (LBS)
TARBORO	061908	18	600	0
ROCKY MT	090308	65	3,000	0
RED OAK	092308	20	2,000	3,935
MURFREESBORO	011309	25	2,000	0
CLINTON	021309	12	1,200	870
FARMVILLE	021809	80	10,000	3,134
Salisbury	100109	40	3,000	1,000
TOTAL	7	260	21,800	8,939

plastic now ground at all sites as of 041509

Contact Information

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- Email: Derrick.Bell@ncagr.gov
- Website: ncagr.com/PDAP